

## 1           READYING MICHIGAN TO MAKE GOOD ENERGY DECISIONS

## 2                   Michigan Energy Public Forum

## 3                           DETROIT

4                           Monday, March 25, 2013  
5                           1:05 p.m. - 6:15 p.m.6                           NextEnergy  
7                           461 Burroughs Street  
8                           Detroit, Michigan 48202

9                           - - -

10 Introduction:   Jean Redfield, President and CEO of NextEnergy  
11                   Steve Bakkal, Director, Michigan Energy Office  
12                   John Quackenbush, Chairman, Michigan Public  
13                   Service Commission14 Presentations:  Energy Innovation Business Council - Dan  
15                   Scripps, President16                   St. Vincent De Paul - Bill Brazier, Executive  
17                   Director18                   Marathon - Jennifer Steiner-Burner, Energy  
19                   Supply Analyst20                   Detroitters Working for Environment Justice -  
21                   Guy Williams, President and CEO22                   Energy Choice Now - Wayne Kuipers, Executive  
23                   Director

24                   THAW - Susan Sherer, CEO

25                   DTE Energy - Nick Khouri, Vice President of  
                  Regulatory Affairs

Ford Motor Company - George Andraos, Director,

                  Michigan Energy Efficiency Alliance - Stacy  
                  Paradis, Deputy Director

- - -

REPORTED BY:  Lori Anne Penn, CSR-1315

Metro Court Reporters, Inc.   248.426.9530

1	<u>INTRODUCTION:</u>	<u>PAGE</u>
2	Jean Redfield, President and CEO of NextEnergy	5
3	Steve Bakkal, Michigan Energy Office	6
4	John Quackenbush, Chairman, Michigan Public Service Commission	10
5	Steve Bakkal	15
6	<u>PRESENTATIONS:</u>	<u>PAGE</u>
7	Energy Innovation Business Council - Dan Scripps, President	16
9	St. Vincent De Paul - Bill Brazier, Executive Director	24
10	Marathon - Jennifer Steiner-Burner, Energy Supply Analyst	27
12	Detroiters Working for Environment Justice - Guy Williams, President and CEO	36
13	Energy Choice Now - Wayne Kuipers, Executive Director	45
15	<u>INTRODUCTION OF LEGISLATORS</u> - Steve Bakkal	52
16	<u>COMMENTS</u> by Senator Hoon-Yung Hopgood	53
17	<u>PRESENTATIONS (Continuing):</u>	
18	THAW - Susan Sherer, CEO	54
19	DTE Energy - Nick Khouri, Vice President of Regulatory Affairs	61
20	Ford Motor Company - George Andraos, Director, Energy	71
22	Michigan Energy Efficiency Alliance - Stacy Paradis, Deputy Director	7
23		
24		
25		

1	<u>PUBLIC STATEMENTS:</u>	<u>PAGE</u>
2	Clayton Donnell	86
3	Jennifer Battle	88
4	Reese Serra	92
5	Paul Beck	95
6	Wible Heymach	97
7	Josh Barclay	99
8	Mike Handley	102
9	Virginia Shannon	104
10	James C. Harrison	107
11	Amanda Godward	112
12	Bill Ross	114
13	Steve Toeppner	118
14	David Winowiecki	122
15	Sean Beady	125
16	Victoria Pebbles	128
17	Ed McArdle	131
18	Julie Lyons Bricker	136
19	Anand Gangadharan	139
20	Scott Viciano	142
21	Robert Gordon	145
22	Fay Beydoun	146
23	Gary Dillon	149
24	Frank Zaski	151
25	Lew Banwart	156

1	<u>PUBLIC STATEMENTS:</u>	<u>PAGE</u>
2	Sandra Turner-Handy	159
3	Margaret Weber	161
4	Nick Schroeck	163
5	Bill Ghrist	165
6	Nicole O'Brien	167
7	Gail Barber	171
8	Ahmina Maxey	175
9	Nancy Davis	177
10	Anne Sousanis	180
11	Dean Sousanis	181
12	Thomas Reinke	184
13	Loch McCabe	187
14	Jacob Coridae	190
15	Douglas Myers, Jr.	193
16	<u>CLOSING</u>	
17	John Quackenbush	197
18		
19		
20		
21		
22		
23		
24		
25		

Detroit, Michigan

Monday, March 25, 2013

At 1:05 p.m.

- - -

JEAN REDFIELD: If you'll all take a seat, both here in the auditorium and in the atrium. For those of you in the overflow spaces in the atrium, if you'd prefer to be in the auditorium, feel free to come on in at this point.

I'd like to introduce myself. I'm Jean Redfield, I'm the president and CEO here at NextEnergy, and I'd like to welcome you all to the Energy Forum this afternoon. We're very pleased to be able to host this event for the State Energy Office and the Michigan Public Service Commission. I apologize for the fact that we don't have a single space large enough, but we feel like the center is such a unique place, having the Forum here was worth dividing it into two separate places.

The way the day's going to work is the speakers and the public comments will all be made from the auditorium, and it should be broadcast in the atrium so you all should be able to see and hear what's happening in the auditorium.

Anyone who is a confirmed speaker, if you're not in the auditorium now, please proceed and join

Metro Court Reporters, Inc. 248.426.9530

1 us here. If you have signed up for public comment, your  
2 names will be announced and you can come on into the  
3 auditorium at that point, or if you're already here, that  
4 would be even better.

5 Again, I want to extend a warm welcome  
6 from the NextEnergy Center. We're here as a primary  
7 asset from the State of Michigan, we help to incubate and  
8 accelerate advanced energy technologies in Michigan. And  
9 we're very pleased to have all of you here today.

10 At this point, I'll turn it over to the  
11 real hosts, Steve Bakkal and Chairman John Quackenbush  
12 from the State Energy Office and the Michigan Public  
13 Service Commission. Thank you.

14 STEVE BAKKAL: Good afternoon, everyone.  
15 And thank you, Jean, for the warm welcome, and thank you  
16 for hosting us and all the staff at NextEnergy for  
17 putting on such a great event for us. It's great to see  
18 such a great turnout.

19 Again, my name is Steve Bakkal from the  
20 State Energy office, part of the Michigan Economic  
21 Development Corporation. On behalf of the Chairman of  
22 the Michigan Public Service Commission, Mr. John  
23 Quackenbush, and myself, we'd like to welcome you to our  
24 fifth Michigan Energy Forum as we continue our process to  
25 ready Michigan to make good energy decisions.

Metro Court Reporters, Inc. 248.426.9530

1                   As many of you know, the Governor this  
2 past November gave his energy and environment address  
3 where he talked about the three pillars of a sound energy  
4 policy; that of reliability, affordability, and a  
5 protected environment, all built on a foundation of  
6 adaptability. And at that same message, he also talked  
7 about 2013 being the year that we engage with our  
8 policymakers and our legislators to gather input, facts  
9 and information that are needed in three specific areas  
10 that guide much of our energy policy today; that of  
11 energy efficiency, renewable energy and Electric Choice,  
12 or other additional areas that should be considered as  
13 well. Which brings us to the reason why we're here  
14 today.

15                   This past January we announced the input  
16 phase of this process that the Governor laid out. We'll  
17 be gathering this information through two primary  
18 methods; one of which is these forums, and the other of  
19 which is the website that we've developed at  
20 michigan.gov/energy. The website is going to be open for  
21 comments and submissions until April 25, and I'll talk a  
22 little bit about the kinds of information we're look for  
23 there.

24                   When you go to the website, you'll notice  
25 a series of over, close to a hundred questions now, we've

1 actually added some recently, focused on these three  
2 topic areas; many of them are very specific in nature,  
3 asking for very detailed information, studies and facts  
4 that are available, but generally it can all be  
5 summarized by these two general questions: First, what  
6 information do our energy policymakers need to consider  
7 in order to make good energy decisions? And second, what  
8 existing data or studies are available that our  
9 policymakers can utilize? So what you won't see on the  
10 website are things that are asking for specific policy  
11 recommendations. We're not asking what our specific  
12 targets should be or what policies the state should  
13 enact, or if we even should have certain targets in these  
14 areas, we're asking for the underlying facts that are  
15 needed for our policymakers to make those determinations.

16           Again, we're also utilizing these forums  
17 to gather this information. The format of these forums  
18 will be similar to what we're doing today. We're going  
19 to have two additional ones going through the end of  
20 April in Marquette and Traverse City. We'll start off  
21 the day with a set of presentations from some of the  
22 major stakeholders that we have in the state that will  
23 attempt to address the questions that we've posed on the  
24 website from their viewpoint.

25           All the presentations that you will see



1 here today are going be to available on the website, all  
2 the past presentations from the previous forums are also  
3 available on the website. You will notice every forum  
4 had different sets of presentations, different sets of  
5 information. Also, the public comments will be made  
6 available on the website. We do have a court reporter  
7 with us today that's taking down all the recordings from  
8 the complete forum, so a transcript of that will be  
9 available on the website as well.

10 So what are the next phases after this  
11 input phase? At the end of April, in the May through  
12 June timeframe, the Chairman and myself will start  
13 compiling this data and looking at what other information  
14 we may need. We understand that through this process,  
15 we'll get a lot of answers, but there may be some that we  
16 may still need to go out and develop. In the  
17 July-September timeframe, we'll start to compile the  
18 reports. October-November, we'll actually release the  
19 draft copy of the report on the website, also making it  
20 available for public comment as well. The way the  
21 website is set up, it's very interactive, so if you see  
22 information that's there that's been posted as a response  
23 to the questions and you have better information, we  
24 absolutely encourage you to submit that. So the same  
25 thing will happen with the draft report that we're going

1 to post; have a chance to review that, you have better  
2 information, corrections that need to be made, absolutely  
3 submit that. The November-December timeframe, we will  
4 release the final report, and it's anticipated that the  
5 Governor will utilize this report to announce and develop  
6 his own energy, comprehensive energy policy at the end of  
7 the year.

8 With that, let me ask you to join me in  
9 introducing Mr. John Quackenbush. He's going to talk  
10 about these specific areas and where we are today and  
11 some of the work that the Public Service Commission has  
12 done in these areas. Please join me in welcoming John to  
13 the stage.

14 JOHN QUACKENBUSH: Well, good afternoon.  
15 We've asked for data, studies, reports, documents,  
16 studies, anything that's out there is coming in, the  
17 website is getting populated with that, and I know  
18 there's more on the way. The website will be open  
19 through April 25. But we know some things already, and  
20 where are we starting from? Well, I'm going to show you  
21 a few slides about some data that we've already gathered  
22 at the Michigan Public Service Commission and have  
23 already put out there in reports.

24 First slide is about energy efficiency,  
25 specifically electric energy efficiency. We've had

1 targets that we've been shooting for since 2009, and we  
2 are comparing here, we're -- there's two things going on  
3 in this slide. If you look on the right-hand side first,  
4 we've been ratcheting up the target every year; this was  
5 set legislatively. We started with a modest .3 percent  
6 in '09, and worked our way up to where we're at 1 percent  
7 in 2012. That 1 percent, this is a targeted savings,  
8 will stay there if nothing else is done. And so part of  
9 what we're looking for is good information that will help  
10 us set targets, or help the legislature set targets as to  
11 whether it should be raised, decreased, kept the same.  
12 How have we done versus those increasing targets? Well,  
13 we've beaten the targets every year as a state. You can  
14 see, comparing the bars on left-hand side, the bars are  
15 going up, and the actual bars exceed the targets in every  
16 specific year. This data is on the website as well as on  
17 the Michigan Public Service Commission website and the  
18 Energy Efficiency Report that we put out once a year,  
19 this one's due November 30th every year.

20 I'm going to show you the same type of  
21 information about gas energy efficiency. Again, we've  
22 had increasing targets year-by-year, and we've beaten the  
23 target in all the past years.

24 So where can we go from here? One thing  
25 that we found is that taking 2011 as an example year,

1 combined for electric and gas, we've made energy  
2 optimization expenditures of 205 million, and based on  
3 the best calculations that we have, that leads to  
4 lifecycle savings of \$709 million for customers. So  
5 we're getting more than 3 1/2-to-1 of a payoff on the  
6 energy optimization expenditures. We calculate that if  
7 we compare that to the energy that's avoided, it's the  
8 equivalent of paying \$20 a megawatt hour for electricity,  
9 which is lower than any other generating source, any  
10 generating source that we have.

11 So let's move on to renewables and take a  
12 look at this chart. Again, we have a 10-percent by 2015  
13 target that we've been building towards. You can see  
14 we've made good progress. Those upwardly progressing  
15 bars to the right shows that we are increasing our  
16 percent every year, and we're on track to hit 10 percent  
17 by 2015.

18 Now, how do these costs compare? In this  
19 report, Renewable Energy Report which is due every  
20 February, we just recently prepared one, and in there it  
21 shows that our weighted average cost of renewable energy  
22 on a levelized cost basis is a mid 80s per megawatt hour,  
23 \$85, right around there. That's weighted average to  
24 date; however, this cost has been declining. The most  
25 recent costs that we've seen are in the low 50s, so

1 there's been good progress. I think those costs are  
2 lower than what was contemplated at the time the 2008  
3 legislation was adopted. So that's been good news. That  
4 compares to an embedded cost of all of our existing  
5 generation for all fuels in the mid 60s, somewhere around  
6 \$64, that's what customers are currently paying in rates.  
7 And if you look at the estimated cost of a new gas-fired  
8 generating plant, that comes out also in the mid 60s. So  
9 those are all numbers we're interested in comparing and,  
10 you know, we're interested in your comments on those  
11 numbers or any better numbers that you might have that  
12 you can present to us.

13 Electric Choice, the third issue.

14 There's a 10-percent cap. Customers that want to select  
15 an alternative energy supplier can put their name in a  
16 queue and wait their turn. We've hit the cap. There's  
17 been times in the past we've been below 10 percent,  
18 there's been times we've had demand greater than 10  
19 percent, like currently. And if you look at the two  
20 tables of numbers on this slide, if you look at the  
21 bottom right-hand corner of each table, it will show you  
22 an interesting number, which is what would the  
23 participation be in Electric Choice without a cap; in  
24 other words, if we were to just immediately pretend the  
25 cap wasn't there or immediately remove it, where would

1 our customer demand go? And here you can see at the end  
2 of 2012, the answer was 24 percent in the case of  
3 Consumers Energy and 21 percent in the case of Detroit  
4 Edison, our two largest utilities.

5 From the same report, the Electric Choice  
6 report, we showed a few rate comparisons, and we're  
7 seeking information that will help us determine what the  
8 best way to look at these numbers are. As you can see,  
9 this is just Michigan compared to several midwestern  
10 states that surround us, Michigan has generally been in  
11 the top half of rates, and this is for residential  
12 customers, and by the middle of the last decade had  
13 drifted to be roughly in the middle of the pack, an  
14 average, and then it worked its way back into the upper  
15 half, and now we are, in 2012 Michigan has the highest  
16 rate for residential electric rate. So we're seeking  
17 information, we know some reasons why that is, there's a  
18 number of reasons, I think, and we're looking to identify  
19 a comprehensive picture of that.

20 Same chart again, except this is  
21 industrial rates. Very similar story, so I won't really  
22 dwell on this slide. But this shows you some data that  
23 we're starting with. And, you know, there's different  
24 ways to process it, you might have some other  
25 information, please come and share it.

1                   We're looking forward to your comments  
2                   today and we're looking forward to your postings on our  
3                   website. So let me turn it back to Steve to continue on.

4                   STEVE BAKKAL: Thank you, Mr. Chairman.

5                   Before I introduce our first speaker, I  
6                   want to quickly go through the activities for the rest of  
7                   the day. Again, we're going to have today nine  
8                   presentations from our major stakeholders, approximately  
9                   five minutes each. We'll be taking a short break after  
10                  that, and then we'll be opening it up for public comment  
11                  as well. We are scheduled to be here until 5:00, but we  
12                  are prepared and I believe NextEnergy is prepared to let  
13                  us stay a little longer than that. In the past, we've  
14                  received anywhere from 42 to 80 requests to speak. Just  
15                  to let you know, we haven't been able to get through  
16                  every single one, but we do make our best efforts to do  
17                  that. The website is open for submissions, there is no  
18                  different weight given for public speakers versus what  
19                  the information is provided on the website.

20                  At this point, I'd like to open up for  
21                  any legislators that are here in the audience that may  
22                  want to say a few words. I didn't recognize anyone  
23                  offhand, but if there's anyone here that would like to  
24                  say a few words, a member of our legislators? No. O.K.

25                  Well, with that, I'd like to introduce  
                    Metro Court Reporters, Inc.   248.426.9530

1 our first presenter today, Mr. Dan Scripps, President of  
2 the Energy Innovation Business Council. Please join me  
3 in welcoming Dan to the stage.

4 DAN SCRIPPS: Thank you, Director Bakkal,  
5 Chairman Quackenbush. My name is Dan Scripps, I'm the  
6 President of the Michigan Energy Innovation Business  
7 Council. We are a trade association representing the  
8 full suite of advanced energy companies in Michigan. We  
9 also have a not-for-profit sister organization, the  
10 Institute for Energy Innovation, whose mission is to  
11 promote a greater public understanding of advanced energy  
12 and its economic potential for Michigan.

13 As I mentioned, we represent the full  
14 suite of advanced energy across the state, including  
15 efficiency, wind, solar, bio energy, transportation, so  
16 trying to take a comprehensive broad view approach of  
17 what advanced energy is and how it impacts the Michigan  
18 economy.

19 I want to lay out a couple of key themes  
20 that I hope to cover today. We spoke in Grand Rapids and  
21 focused on costs and economic development issues relating  
22 to the renewable energy standard and the energy  
23 optimization standard, so I won't be speaking on those  
24 today, but focusing more on how a balanced approach  
25 considering both supply and demand can improve overall



1 system reliability and reduce costs, how the variability  
2 of both supply and demand is an issue that can be managed  
3 successfully, the integration of risk considerations into  
4 the decision-making process, and respectfully, why the  
5 timeline for this process should be accelerated.

6 So to start, it's important that we think  
7 about the whole system, and too often I think that we  
8 focus on, almost exclusively on how power is supplied. A  
9 focus on supply leads to a number of mistakes in analysis  
10 and policy. For example, we think of electricity as  
11 having a common cost because that's what shows up on our  
12 bill, and that hides that the cost of certain load at  
13 peak times is significantly, significantly higher, as  
14 I'll show in the next slide; and we don't ever ask, you  
15 know, is that a cost that ratepayers are actually willing  
16 to pay, or can we look at both supply and demand in a  
17 balanced approach and find perhaps a better way forward.

18 So how you would integrate this balanced  
19 approach looking at both supply and demand would  
20 incorporate demand-side strategies, such as time-specific  
21 pricing, comprehensive demand response, critical peak  
22 pricing, conservation voltage regulation, and  
23 load-shifting storage, and research suggests that  
24 integrating those strategies has a potential to produce  
25 net savings of between 7 and 11 percent of electricity

1 system costs. These practices are also far more  
2 compatible with the emergent (inaudible) generation of  
3 solar, of pluggable electric vehicles, grid-integrated  
4 power, et cetera, and so adopting an approach that is  
5 more balanced and looks at the demand side actually will  
6 not only help with costs and operations of the current  
7 system, but pave the way for where I think a lot of  
8 people expect that we'll go.

9 Finally, proper pricing in this context  
10 to end users would actually make our incumbent utilities  
11 more competitive with alternative suppliers, so  
12 regardless of how the debate over Electric Choice shakes  
13 out, this would eliminate cherry-picking customers who  
14 have load profiles that are easier and cheaper to serve.

15 So the big question, turning from demand  
16 to supply again, and specifically looking at renewables,  
17 is variability. Much of the discussion around renewable  
18 energy has been concerned with the variability of  
19 electric production or -- and tell me if you've heard  
20 this before -- that the wind doesn't always blow and the  
21 sun doesn't always shine, and isn't that a problem. But  
22 critics argue that the intermittency and the variability  
23 of renewable makes them inherently unreliable when you  
24 point to variability charts like this one, except that  
25 that's not actually what that chart shows. This shows

1 the variability not of supply, but of demand, because  
2 electricity has always been variable. We don't run our  
3 lights or our appliances 24/7, and we've been able to, by  
4 taking a step back and looking at how we manage that  
5 variability, to make a system that actually works. So  
6 understanding that energy is a system with both supply  
7 and demand inputs allows us to better manage the  
8 variability of both generation and use.

9 In fact, some renewables like hydro and  
10 methane digesters are base load, while others are putting  
11 solar generating most at points of highest demand. So if  
12 you look at the chart on the left, that's the current  
13 use, so all the way to the left you see that there are  
14 times where we -- and these are the highest system peaks  
15 of the year -- where we use a lot and we serve those with  
16 peaking plants; the red bar shows where we are using load  
17 quality plants; and then the blue is base load. The  
18 chart on the right shows what happens if you integrate  
19 10-percent solar into that. And what happens is you see  
20 less base load, less peaking, more renewables and more  
21 load following. In fact, a 2012 report from the National  
22 Renewable Energy Laboratory demonstrated that despite the  
23 variability of renewable resources, reliable electricity  
24 supply can be provided with a mix of 90-percent  
25 renewables. Let me say that again. For all the talk

1 that we hear about concerns about variability and  
2 intermittency, we can get reliable electricity supply  
3 with a mix of 90-percent renewables.

4 I referenced this next chart in my  
5 presentation in Grand Rapids, and it's a chart from a  
6 recent series report on managing risk in utility  
7 regulation. Although the cost estimates that are here  
8 are already out of date because of the rapid decline in  
9 renewable costs, the basic conclusions are still about  
10 right. The lowest-cost and lowest-risk option is energy  
11 efficiency, and we commend Governor Snyder for  
12 recognizing in his environment and energy message that  
13 energy efficiency is a the best example of a no-regrets  
14 policy Michigan can have.

15 Among those generation options have led  
16 to the option of wind, combined-cycle natural gas is low  
17 cost and low risk, as you see, it's concentrated in the  
18 lower left corner, and solar is actually better than it  
19 looks here because, again, it produces most at times of  
20 peak demand.

21 When you dive a little deeper into the  
22 generation choices, one particular conclusion is that  
23 most of the risks are caused or exacerbated by largeness.  
24 Research from Bloomberg New Energy Finance suggests that  
25 we can best address risks and uncertainties by committing

1 capital in smaller increments, preserving resilience,  
2 optionality and gaining intelligence, and one way that  
3 you can do this is actually by including wind. This  
4 graph shows a -- comes from a recent report by Lawrence  
5 Berkeley National Laboratory, and suggests that wind is a  
6 valuable investment in cost-risk avoidance, even if we  
7 only credit it with natural gas fuel savings and don't  
8 look at any other of the costs. And that's even more  
9 true in Michigan, because our wind prices are about the  
10 same as the national average, but because of delivery  
11 costs, our natural gas prices are slightly higher.

12 I'm going to skip this in the interest of  
13 time.

14 The last point is really about the need  
15 to accelerate the decision-making timeline, because the  
16 absence of a guided policy will cause an unnecessary  
17 pause in development, similar to what we saw, uncertainty  
18 over the extension of the production tax credit. I was  
19 working on a wind deal last March and we wanted to make  
20 sure that the financing was in place a full nine months  
21 before the end of the year because that's the decision-  
22 making timeline. If we get to the point where we're not  
23 sure if we're going to go above 10 percent by 2015 and  
24 have to wait three years to find out, that's going to  
25 cause a real dropoff in deployment and could hurt

1 Michigan business, could have people who have been  
2 trained over the last several years in implementing the  
3 renewable energy standard actually look for other places  
4 to go. That would actually be exacerbated if we made  
5 large investments in regulated central generation in the  
6 meantime because that would foreclose options for more  
7 use of efficiency, more renewables and more competitive  
8 supply. So accelerating the process we think is critical  
9 for managing (inaudible) and ensuring a no-regrets energy  
10 policy.

11 So I'll conclude with a couple of, a  
12 couple of additional policy challenges, and in the  
13 interest of time, I'm not going to try and provide  
14 answers, but just put these on the table as additional  
15 things to include.

16 From a risk perspective, how do we shift  
17 risk to the decision-making utility and improve the  
18 ability of the Commission to include risk considerations  
19 in its decisions?

20 How can we incorporate the efficiency  
21 resource that the utility business models so that  
22 efficiency will receive appropriate emphasis, so that  
23 utilities actually see that as profitable, as being as  
24 profitable as new generation?

25 How can we reinvent rate design in a  
Metro Court Reporters, Inc. 248.426.9530

1 regulated environment to discourage utility price  
2 discrimination, customer cherry-picking and cost shifting  
3 in retail competition?

4 Can we reform anticompetitive utility and  
5 regulatory barriers for renewable and distributed  
6 generation without retail Choice? So we talk a lot about  
7 Choice for a number of reasons, but can we, if we stick  
8 to a regulated environment, can we remove some of those  
9 barriers?

10 And finally, in the foreseeable future,  
11 looking at cost trends and what's happening in other  
12 places, distributed generation, especially from solar,  
13 will be cheaper than grid power. Storage and micro-grids  
14 will follow soon after. So how do we anticipate that?  
15 How do we get out in front of it and correct and fix the  
16 current business model before the current one breaks?  
17 And are we going to actually make our, put ourselves in  
18 the hole by making additional large invests that will  
19 become stranded assets for which we must pay?

20 These are obviously large questions. And  
21 on behalf of the Institute for Energy Innovation, the  
22 Michigan Energy Innovation Business Council, and our  
23 members, we look forward to working with you to find  
24 answers that work for Michigan. Thanks very much.

25 STEVE BAKKAL: Thank you, Dan.

Metro Court Reporters, Inc. 248.426.9530

1                   Our next presenter is Bill Brazier,  
2                   Executive Director from St. Vincent dePaul. Please join  
3                   me in welcoming Bill to the stage.

4                   BILL BRAZIER: Director Bakkal, Chairman  
5                   Quackenbush, ladies and gentlemen, at the recent election  
6                   of our newest Pope Francis, one of the first things he  
7                   said was, "Remember the poor". And today I want to just  
8                   share with you some of the things that St. Vincent dePaul  
9                   is doing to help people and remind them about working  
10                  with those who live in poverty.

11                 St. Vincent dePaul is a Catholic lay  
12                 organization, we're a provider of basic human needs to  
13                 vulnerable clients in southeast Michigan, we've been  
14                 doing this for over 127 years, through home visits, with  
15                 our food pantry, soup kitchens, thrift stores, we have a  
16                 dental clinic, a youth summer camp, we provide clothing,  
17                 furniture, medicine, medical bills, help with rent,  
18                 energy assistance and more. We do this through a network  
19                 of over 3,000 members in southeast Michigan, plus  
20                 countless others statewide.

21                 Since 2006, our tradition of assisting  
22                 with energy bills was augmented thanks to the Low Income  
23                 Energy Assistance grants from the Michigan Public Service  
24                 Commission. Last year, our energy assistance network, we  
25                 expanded to 31 counties at the grassroots level,

                  Metro Court Reporters, Inc.   248.426.9530



1        disbursing over \$1 1/2 million through the Vulnerable  
2        Heath and Warmth Fund and other funds to over 1,200  
3        households statewide. In 2013, we anticipate disbursing  
4        over 2 million in utility assistance.

5                Give you a couple cases of people that we  
6        see, this is fairly typical of those who live in poverty  
7        and our neighbors who come us to.

8                Michelle has four children under the age  
9        of 16, two of whom have disabilities. She was forced to  
10       move out of the home and take the children because of an  
11       abusive husband. She has SSI of \$17,000 per year, plus  
12       food stamps and Medicaid. Her husband does not pay any  
13       child support. She's struggles to pay her bills. We  
14       assisted her with overdue energy in the amount of \$2,336.

15               A second case. Mary is age 63, she has  
16       custody of a 19 year old granddaughter with health  
17       issues, who the mother of does not want to support. Mary  
18       receives Social Security and works part time for, earns  
19       \$28,000 a year. She has no food stamps or any other  
20       assistance from the Department of Human Services. She  
21       worked for over 30 years, and has not received a pension  
22       since 2009 because there was -- her pension was wiped out  
23       during the stock market crash. We assisted her with her  
24       overdue energy bill of over \$1,970.

25               The Society of St. Vincent dePaul is  
             Metro Court Reporters, Inc.    248.426.9530

1       embarking on a program we refer to as systemic change.  
2       We're committed to ending poverty in the United States.  
3       We're part of a world-wide family known as the  
4       Vincentians who do this work, and we see systemic change  
5       as the mean to achieving this goal.

6               There's four building blocks around  
7       systemic change: Empowerment, mentoring, collaboration,  
8       advocacy.

9               In terms of empowerment, it's empowerment  
10      of our members through education in the realities of  
11      poverty and its solutions, as well as empowerment of  
12      those we serve to provide opportunities to identify and  
13      claim their ability to make positive changes for  
14      themselves and for their communities.

15              In terms of mentoring, mentoring is key  
16      to gaining and maintaining the motivation and support for  
17      change, so we'll work with our neighbors side by side.  
18      It used to be we just provided handouts; here's a bag of  
19      groceries, here's help with utilities, here's help with  
20      rent; but now we're going to stay with them much longer  
21      in a mentoring relationship to help them and give them  
22      the support they need to make the changes.

23              Collaboration. We want to collaborate  
24      with others who share our commitment to ending poverty  
25      and transforming lives. The Society alone we know can

1 not end poverty. Working together with others offers  
2 hopes for transformative solutions.

3 And advocacy. Advocacy to change and  
4 adjust systems that are barriers to escaping from poverty  
5 for individuals and for communities, and to create  
6 opportunities for meaningful lives for those who struggle  
7 now.

8 The Low Income and Energy Assistance  
9 Program is a vital component in financial intervention as  
10 we work with our clients to move them out of poverty to  
11 household stability through the just-mentioned systemic  
12 change model. The state and federal support is crucial  
13 to achieving this vision.

14 Thank you very much.

15 STEVE BAKKAL: Thank you, Bill.

16 Our next presenter is Jennifer  
17 Steiner-Burner, Energy Supply Analyst from Marathon.  
18 Please join me in welcoming her to the stage.

19 JENNIFER STEINER-BURNER: Thank you. I'm  
20 Jennifer Steiner-Burner from Marathon Petroleum Company.  
21 I've come here to today talk about electricity prices and  
22 how that impacts industry in the State of Michigan.

23 Just to give you a little background on  
24 who Marathon is, we have four refineries up in the  
25 midwest, and we have three down in the gulf coast; the

Metro Court Reporters, Inc. 248.426.9530

1 four in the midwest are located in Ohio, Kentucky,  
2 Illinois, and also Detroit. This is Detroit, it's the  
3 last refinery in Michigan. And three in the gulf coast  
4 are down in Texas City, two of them are there, and one in  
5 Louisiana. We also have a grouping of pipelines and  
6 terminals that connect all of our infrastructure  
7 together, and we also own 1,460 Speedway gas stations,  
8 300 of those being located up in Michigan here.

9 Just a little bit about the Detroit Heavy  
10 Oil Upgrade Project. We invested \$2.2 billion here in  
11 Michigan over the last four years, from 2008 through  
12 2012, and the centerpiece of this project was the new  
13 coke and distillate hydro-treater. This project was just  
14 completed, and an important factor of this plant  
15 expansion decision in 2006 and 2007 was the opportunity  
16 for Electricity Choice in the State of Michigan; however,  
17 in 2008, after our project was already started being  
18 built, there was PA 286 passed and a 10-percent cap was  
19 put on Choice, and that really kind of limited our  
20 ability to move the facility then to Electricity Choice  
21 when it came on line.

22 So let's talk a little bit about the  
23 current situation of electricity rates in Michigan. How  
24 do Michigan electricity rates compare? What has happened  
25 since the passage of 286 in October 2008? And what is

1 Michigan's electricity policy solutions to high  
2 electricity costs going forward?

3           You might have seen this graph in some  
4 previous presentations that were given on how do Michigan  
5 rates compare. On the basis line here, you have the U.S.  
6 average of electricity rates, and can you see from 1990  
7 to 2000, Michigan's electricity rates are higher than  
8 that, than the average U.S. rates, and that was one of  
9 the reasons that we went to Electricity Choice back in  
10 2000-2001 timeframe with the passage of PA 141, and also  
11 the passage of PA 142, which was wherein the utilities  
12 securitized about \$2.2 billion worth of their nuclear  
13 assets stating that they weren't marketable at the time.

14           So when 2001 passed, all of a sudden  
15 you'll notice that the electricity rates dropped. There  
16 started being some competitive pressure put on the  
17 utilities, and you can just see that that is definitely  
18 what is needed in the State to make them want to keep  
19 their customers. And even at that point in time, Detroit  
20 Edison and Consumers Energy, they went out there and they  
21 were competing against each other. With our Detroit  
22 refinery, we did business with one of Consumers Energy's  
23 subsidiaries, and the same thing was happening with DTE,  
24 they were out there competing for rates, which lowered  
25 the cost overall.

1                   Then again let's look now at 2008-2009  
2                   when PA 286 was enacted and the 10-percent cap was put  
3                   into place. You'll see that rates once again have  
4                   started to go up above the level of the U.S. average.

5                   I borrowed some charts from the  
6                   Commission, and also they got these I believe from the  
7                   U.S. Energy Information Administration, and this just  
8                   kind of gives you the midwest states and how the  
9                   electricity rates compare; and while Michigan has always  
10                  been higher than some of the other states, you can see  
11                  how it started to break away in 2011 and 2012 on the  
12                  rates.

13                  We also graphed the commercial rates,  
14                  which would be like for our Speedway stores, and you can  
15                  see the same thing, that Michigan is in the red line and  
16                  its rates continue to be quite high compared to the other  
17                  states around. And I think some of that is because we  
18                  just don't have any options in Michigan, you're pretty  
19                  much on the tariffed rate, and some of the other states  
20                  around us, like in Ohio, you actually can go out there  
21                  and utilities bid to be the provider of last resort. So  
22                  even if you don't shop, you're getting a very competitive  
23                  rate in the State of Ohio by having some of those  
24                  different systems available for the utilities to compete  
25                  against each other.

1                   And then the last graph on this from the  
2                   USEIA is the residential rates. And what I wanted to  
3                   comment on this one, you can see Michigan's right around  
4                   14 cents. Where I live, which is hundred miles south of  
5                   here in Findlay, Ohio, you see we're closer to like the  
6                   11 1/2-cent rate. I'm shopping, we're able to shop as  
7                   residential. I know we don't have any shopping in  
8                   Michigan now in the residential load, but I think if you  
9                   opened the cap and looked at that, people, there would be  
10                  aggregation programs. And it's very transparent, you  
11                  save right around 2 cents per kWh right now. And I just  
12                  listened to the presenter before me, and things that you  
13                  could possibly do for the residents of Michigan is you  
14                  could put more money back in their pocket by having  
15                  competitive electricity rates.

16                  So we looked at it from the EIA, from the  
17                  government's information, and then I also wanted to graph  
18                  it from our company's perspective. And this is from our  
19                  own internal reports: We've got all four of our  
20                  refineries from the midwest, the red line is Michigan,  
21                  and then Ohio is a kind of pinky-purple, and Kentucky is  
22                  in yellow, and Illinois is in blue, and then I've also  
23                  graphed Detroit Edison's bundled rate. And, you know,  
24                  throughout the times, there's been -- you're allowed to  
25                  have economic development rates, and when we put

1 investment in our facilities, we were able to get on to  
2 those tariffs; but those tariffs are going to go away  
3 with the passage of PA 286, and there will be  
4 cost-of-service rates, so there will be no longer any  
5 economic tariffs available. The 10-percent cap is full,  
6 so there's no opportunity to shop, so there's just no  
7 optionality for an industrial customer or any customer in  
8 the State to take on more risk to mitigate their  
9 increasing electricity costs. And what I want to really  
10 point to is look at the increase from 2011 to 2012, and,  
11 you know, I haven't put any of my cents per kWh on the  
12 axis here because this is confidential information, it is  
13 all fairly, it's all relative information, but just the  
14 amount of increases in Michigan is what is disturbing.

15 Then finally, the last way we take a look  
16 at this is Marathon participates in something called a  
17 Solomon Study, and we're part of the midwest refinery  
18 supplier corridor, and Solomon is a company that  
19 specializes in benchmarking and consulting services for  
20 refineries, and the area this is is for Minnesota,  
21 Wisconsin, Michigan, Iowa, Missouri, Illinois, Indiana,  
22 Ohio, Kentucky and West Virginia, and historically the  
23 Detroit refinery again has been ranked in the highest  
24 electricity cost tier for that refinery supplier  
25 corridor. And it just makes you pause and think, why are



1 we continually a highest cost, and how are we going to  
2 attract businesses with these high costs in this area?

3 So let's talk a little bit about what's  
4 happened since the passage of PA 286. And this one I  
5 took from all the orders from the Michigan Public Service  
6 Commission and laid it out in a way that Consumers Energy  
7 had laid out to their shareholders, and it just shows you  
8 since PA 286 was passed in 2008, that there's been a new  
9 electric case and a new gas case every year, and those  
10 have cumulated up to \$500 million more in increased costs  
11 on an annual basis since 2008.

12 I also took DTE Energy's, did the same  
13 thing; not as many cases, only two electric and only two  
14 gas cases here, however, they do add up to even more than  
15 what Consumers is collecting and an additional \$522  
16 million annually. And so what that is is we've had an  
17 increase of about a billion dollars a year in electricity  
18 cases since 2008.

19 And what else has happened since the  
20 passage of 2008? I think, you know, when we were sitting  
21 there and it was on the edge of the recession, not  
22 realizing what was happening, we also didn't realize we  
23 were sitting on a radically revised outlook for natural  
24 gas with the shale booms that's happening in the  
25 Marcellas. And what you want to take a look at here is

1 the blue line, the green line, and the pink line at the  
2 bottom there, and it kind of shows you in 2008 timeframe  
3 where we thought natural gas prices were going to be.  
4 Then we take a look at it again in January 2010, and  
5 you're looking at \$6.00 up to under \$8.00. Now we look  
6 at it here in 2012 as we start seeing some of this  
7 Marcellas gas come on line, and you're looking at \$4.00,  
8 and even in 2020 you're looking at under \$6.00 gas. I  
9 mean this is really quite a revolution that's occurring  
10 here in the natural gas industry, and it's really going  
11 to bring about I think another industrial revolution for  
12 the U.S. if we're able to use this.

13 What's going to happen to electricity  
14 rates in Michigan? And here's some other things that  
15 have happened since PA 286 is the more EPA mandates and  
16 environmental costs. And Consumers Energy has already  
17 been talking a little bit about some of their costs going  
18 on, \$1.1 billion investments they're going to have to  
19 make to their plants. They're also looking at building a  
20 potential new gas plant for \$750 million, and I believe  
21 that case has already been filed and will probably be  
22 decided before this, we go through all of this look at  
23 the electricity restructuring, and so that could already  
24 be a given that that will be a non-bypassable charge by  
25 the time -- if we determine Choice will be available for

1 more customers. And then DTE Energy environmental costs  
2 are about \$1.9 billion. So rates are going to be  
3 continue to go up. This is occurring in other utility  
4 territories, too; but there should be some type of  
5 competitive driver on who should build that next piece of  
6 generation. How do we keep the costs low as possible?

7 So Michigan's electricity policy solution  
8 to high costs? Well, there's a couple different things  
9 you could do. Increase Electricity Choice in order to  
10 get competitive electricity prices for Michigan  
11 customers. As you saw the graph they put up earlier,  
12 look at how many customers are in the queue. I know I  
13 have all my facilities in the queue, I want to save big  
14 dollars.

15 Ensure that -- another step you could  
16 take would be to ensure the regulatory process emulates  
17 that of a competitive market. This should be a key  
18 performance metric in order to keep Michigan on the same  
19 competitive grounds as other midwest states. For  
20 example, the return on investment: Where is that up in  
21 Michigan? Is it -- should it equal the midwest average  
22 utility ROI? And the cost of all available resources  
23 must be considered before a utility is granted a  
24 Certificate of Need to build new generation plants. And  
25 those are just a couple examples.

1 But I think we need to get creative, and  
2 Michigan needs to take a hard look at this and not do a  
3 slow walk on this one. You've been transitioning for 15  
4 years now, and I'm concerned we're going to take another  
5 15, and we're missing some of this natural gas that's out  
6 there available. And look at what Ohio's doing, look at  
7 what Illinois has done, and now Indiana is starting to  
8 talk about restructuring their markets, too.

9 And maybe it's not just an argument about  
10 do we want to be deregulated or regulated, maybe we need  
11 to be restructured in order to get this economy moving  
12 again; because I think competitive electricity rates will  
13 bring attractive business climate and it will continue to  
14 have investments in Michigan. Thank you.

15 STEVE BAKKAL: Thank you, Jennifer.

16 Our next presenter is Mr. Guy Williams,  
17 President and CEO of Detroiters Working for Environmental  
18 Justice. Please join me in welcoming Guy to the stage.

19 GUY WILLIAMS: Good afternoon, everyone.  
20 I'm not going to use PowerPoint, so I'm going to try to  
21 see how I can use my notes without screwing up PowerPoint  
22 for the rest.

23 I just want to say hi and welcome to  
24 Detroit to Director Bakkal and Chairman Quackenbush.

25 And I have to start out on a  
Metro Court Reporters, Inc. 248.426.9530

1 down-to-earth note because of where we are. I understand  
2 that many of us are happy that these forums are going on  
3 around the State, and on the other hand, it would be  
4 really great if not only you were here, but if the  
5 Governor himself were here, because there's a lot going  
6 on here that he needs to hear right up front.

7 My organization, Detroiters Working for  
8 Environmental Justice, is a nonprofit organization, we're  
9 dedicated to improving the environmental and economic  
10 health of our community. We envision Detroit's  
11 resurgence as a vibrant urban center where all thrive in  
12 social, economic, and environmental health. To  
13 accomplish this, each day the DWEJ strives to build the  
14 meaningful connections, between jobs and a healthy  
15 environment, between community development and  
16 environmental justice, and between community-driven  
17 policy and economic development, that will transform our  
18 communities.

19 I also want to point out that we work  
20 often in coalitions, and so even though my organization  
21 was chosen to represent and carry the banner for  
22 environmentalists, there are many of our colleagues in  
23 the audience here from many organizations and coalitions,  
24 and we want you to know that in Detroit, people care  
25 about the impact of energy on our lifestyle. There's

1 major sources of the pollution not only in Detroit, but  
2 statewide, that impact our communities negatively, and  
3 I'll be speaking more about that.

4 I'm wearing a T-shirt from one of our  
5 coalitions; it wasn't exactly on a dare, but he thought,  
6 he's going to be wearing a tie, will he wear our Zero  
7 Waste Detroit T-shirt; I'm like damn right. And I will  
8 just digress for a second on why that's so important.

9 We have the world's largest municipal  
10 waste trash burner right down the street here. Somehow  
11 somebody thought it was a great idea to deem it a source  
12 of renewable energy, also known as clean energy. There  
13 are a lot of us who think that was a very bad mistake,  
14 we're working hard to correct it. So that's actually one  
15 of our things we want you to be aware of. You asked for  
16 background information. You should be aware that there  
17 are very strong and vibrant alternatives to burning all  
18 of our trash that would be much better for our economy  
19 and our environment. We'll be happy to give you those  
20 references on your website.

21 In 2012, Proposition 3 garnered a lot of  
22 grassroots support from across the State, and it reduced,  
23 the idea was to reduce our reliance on coal by pushing  
24 for more aggressive renewable energy targets, 25 percent  
25 by the year 2025. Everybody knows that that proposal was

1 not passed, but what many may not know is that in  
2 Detroit, that proposal did pass; 62 percent of voters  
3 were in favor of Proposition 3 in Detroit. This is a  
4 very strong statement in terms of our understanding of  
5 the impact of our energy policies as they are today. We  
6 need a change. Detroiters understand the importance of  
7 having a strong clean energy standard, because we  
8 experience the dangers of dirty energy production every  
9 day.

10 Our colleagues at Michigan NAACP put out  
11 a really great report. I'm going to give you a copy. In  
12 this report they are laying out a lot of research that  
13 shows that cross-pollination between the environmental  
14 impacts of the energy standards, which I'll come to in a  
15 few minutes.

16 And I have one other piece of background  
17 for you, and that is a very powerful document called the  
18 "Principles of Environmental Justice". Just to give you  
19 a little background, those principles were established in  
20 October of 1991 at an international convention of  
21 activists, and many of us in organizations across the  
22 country and across the world have been working to apply  
23 those principles, there are 17 of them, and a very strong  
24 preamble. And just a slight excerpt from that to give  
25 you some context.

1                   In the preamble there's a statement about  
2                   how Environmental Justice is there to promote economic  
3                   alternatives that contribute to the development of  
4                   economically and environmentally safe livelihoods. And I  
5                   bring that up because I think there can be still a  
6                   growing misconception that those of us who work for  
7                   Environmental Justice are somehow in opposition to  
8                   economic growth. It's further -- nothing could be  
9                   further from the truth. We all want to make a good  
10                  living, we want to make a clean living, and we believe in  
11                  innovation and creative approaches, and so we applaud  
12                  this forum and your statewide conversation, and we really  
13                  hope that this doesn't just become another library entry  
14                  later on, that this becomes an action platform that the  
15                  Governor really gets behind.

16                   I want to share with you just three of  
17                  the principles.

18                   Environmental Justice demands public  
19                  policy be based on mutual respect and justice for all  
20                  peoples, free from any form of discrimination or bias.

21                   Environmental Justice demands the right  
22                  to participate as equal partners at every level of  
23                  decision-making, including needs assessment, planning,  
24                  implementation, enforcement and evaluation.

25                   Environmental Justice affirms the need  
                    Metro Court Reporters, Inc.   248.426.9530



1 for urban and rural ecological policies to clean up and  
2 rebuild our cities and rural areas in balance with  
3 nature, honoring the cultural integrity of all our  
4 communities, and providing fair access for all, and a  
5 full range of resources for all.

6           Detroitans working for Environmental  
7 Justice supports a clean energy policy, and we really  
8 support the process of reexamining these policies that we  
9 have on the books. Although we may not agree with all of  
10 the speakers that you hear today, what I think we all can  
11 agree on is the way we're doing energy policy now is not  
12 working for us. We've already seen a lot of data that  
13 speaks very clearly about that.

14           But some of the things from an  
15 environmental perspective I want to point out: First of  
16 all, we want to reduce our reliance on coal. I think  
17 everyone here probably already knows that the emissions  
18 from coal, there's no such thing as clean coal. Let's  
19 get that right off the top. No such thing as clean coal.  
20 You can start at the top of the mountains that they want  
21 to blast off to dig down and get the coal, there's  
22 nothing clean about that. There's nothing clean about  
23 bringing it here from out of state to burn it. There's  
24 nothing clean about working in the mines to extract it.  
25 There's nothing clean about people like myself who have

1 asthma needing to carry these around. It just doesn't  
2 cut it. We need to come up with something new, something  
3 better.

4 Changing our regulations will help  
5 significantly reduce our carbon footprint. We all know  
6 that that's a leading cause of global warming, or if you  
7 don't like that term, global climate change, how about  
8 that one. Anybody walk from your car to get in here  
9 today? Is this spring? I'll just let that speak.

10 A new energy policy will also increase  
11 employment opportunities, particularly among  
12 working-class and low-income people. We need jobs that  
13 are accessible to the whole range of our population here  
14 in Michigan; and the prospects of the types of jobs that  
15 go along with revamping and generating a clean energy  
16 policy match the profile of the education and experience  
17 and the training that's available to people. That's very  
18 important. People should know that even in the nascent  
19 state that it is, the clean energy industry is a \$5  
20 billion industry in Michigan today. Imagine what it  
21 could be if we really turned it loose. I mean think  
22 about it. Small businesses to large. Everybody has a  
23 stake in this.

24 I'm not going to go over everything I  
25 have here, but I want to point out that in Detroit our

1 unemployment rates tends to be twice or triple the State  
2 average in any given moment. This is another reason why  
3 I'm bringing this up about jobs. My organization has  
4 been working to train people in doing jobs and those  
5 career paths for the last five to six years, we're having  
6 a great success rate in bringing people to market, and  
7 they're finding jobs. We want to see that, those  
8 opportunities expanded and continuing to grow.

9 Let me switch over to the health in the  
10 interest of time. Did you know that more than 200,000  
11 people live within three miles of a coal-fired power  
12 plant? Did you know that of those people, 31 percent are  
13 people of color? Did you know that people of color make  
14 up only about 18 percent of those with asthma; yet at the  
15 same time, 75 percent of hospital visits related to  
16 asthma? You might say, well, why is that? I have a  
17 couple of ideas: I think one of them is that many of  
18 those people are subjected to the pollution over and over  
19 and over, they can't get away from it, they have to keep  
20 going back.

21 What do we want? Well, we would like you  
22 to play as strong a role as you can in crafting a  
23 creative (inaudible) clean energy legislation that  
24 protects health while stimulating economic growth and  
25 providing economic opportunities for all Michigan

1 residents. This is a quality of life issue.

2 What else do we want? We would like you  
3 to adopt the Michigan Climate Change Action Plan that's  
4 been out there for several years, go back, take a look at  
5 those recommendations, and let's get busy. Right now  
6 we're working in Detroit on our own Climate Action Plan.  
7 It would be great if we could join forces and make those  
8 two plans go well.

9 And just to repeat, you know, I've got  
10 this button, "Imagine Clean Air". Our incinerator has  
11 got to go. I realize that it may not be part of your  
12 purview per se, but you need to understand that  
13 encouraging burning everything in sight is got a good,  
14 sound energy policy. We need a policy that encourages  
15 the reuse of the material in our waste stream,  
16 repurposing our waste stream from food stock to  
17 manufacturing, and again, these are jobs that match the  
18 populace that's looking for jobs. Very important.

19 Sorry, I just found that my time is up.  
20 I will conclude in just a moment here.

21 I'd like to throw out one final thought,  
22 and that is many of us have been working with the  
23 Department of Environmental Quality on how we can come up  
24 with innovative regulations, because the bottom line that  
25 we've already heard today is that the rules that govern

1       how we operate make all the difference in the outcomes  
2       that we get. We need change. We're working with that  
3       agency, but I want you to be aware and work diligently to  
4       dovetail your efforts with agencies such as the  
5       Department of Environmental Quality, because any major  
6       change in the energy policy is going to have a major  
7       change in the environmental impact one way or the other.  
8       So to have very front-ended and well-informed  
9       conversations between relative agencies would be very  
10      helpful.

11                     Thank you very much.

12                     STEVE BAKKAL: Thank you, Guy. Our next  
13      presenter is Mr. Wayne Kuipers representing Energy Choice  
14      Now, Executive Director. Please join me in welcoming  
15      Wayne.

16                     Somebody from NextEnergy, can you come  
17      up? I don't know what the password is.

18                     WAYNE KUIPERS: Good afternoon, Director  
19      Bakkal, Chairman Quackenbush. Thank you. Thank you for  
20      giving us an opportunity to present today to this group  
21      and to both of you. My name is Wayne Kuipers, I'm the  
22      Executive Director of an organization known as Energy  
23      Choice Now Michigan.

24                     Energy Choice Now is a coalition of  
25      members supporting real energy choices. We're composed

        Metro Court Reporters, Inc.     248.426.9530

1 of customers both large and small, industrial and  
2 commercial, suppliers, and trade associations. Our  
3 coalition was founded in late 2010, and since the time of  
4 our founding, we have attracted over 1,200 members, and  
5 that number continues to grow rapidly each month.

6 As Chairman Quackenbush mentioned in his  
7 introductory comments, the Governor laid out a fairly  
8 aggressive energy plan in his fall special message, and  
9 part of what he indicated a new energy policy needed to  
10 do was address some common pillars. Reliability and  
11 affordability are two of those pillars.

12 Of course, from a reliability standpoint,  
13 we believe that because Michigan is a member of the MISO  
14 grid -- MISO, that MISO's largely responsible for  
15 ensuring adequate and reliable capacity for the entire  
16 region. And, of course, if you look at the Governor's  
17 three pillars, we believe competition is clearly the path  
18 forward.

19 One of the things you will see as you  
20 look at this presentation and some of the others that  
21 have occurred today is that over the last 20 years, the  
22 only time Michigan rates were below the national average  
23 is from 2000 to 2008. Coincidentally, at that time  
24 Michigan had full retail competition. Since the 2000 cap  
25 was put in place in Michigan, Michigan's rates have

1       skyrocketed, while wholesale prices across the country  
2       have largely declined, so clearly the trend in Michigan  
3       is moving in the wrong direction.

4               We believe competition also yields an  
5       environmentally sound policy. Increased plant efficiency  
6       results in decreased carbon emissions. And if you look  
7       at what's been occurring over the last three or four  
8       years, nearly 80 percent of the wind power is in regions  
9       with competitive electricity markets.

10              And, of course, adaptability. Free  
11       markets encourage generation where it's needed and when  
12       it's needed, and free markets allow the State and the  
13       users in the State to get power from the lowest cost,  
14       most reliability options.

15              In competitive markets, competition --  
16       competitive generation gets built. In Michigan, what  
17       we've seen is competitive developers have built 4,000  
18       megawatts of generation in Michigan; it's the only  
19       nonrenewable generation built in Michigan in the last 20  
20       years. In the MISO market, more than 15,000 megawatts of  
21       merchant (non-utility) generation has been built since  
22       2001. And in PJM, another transmission system, more than  
23       26,000 megawatts of supply resources have been added in  
24       the last five years alone.

25              The MISO was created to ensure  
      Metro Court Reporters, Inc.   248.426.9530

1 reliability. It's largely in their mission statement.  
2 They're required to ensure enough capacity exists for all  
3 customers in the region, which includes Michigan, and  
4 they have rules in place to incent new generation is  
5 built when it's needed.

6 You've see this chart before today, and  
7 you've seen it in other hearings that you've had across  
8 the State, and I think the reason for that is because it  
9 gives you the most concise description, presentation,  
10 explanation for what's been occurring in Michigan since  
11 1990, what happened in Michigan under competition, and  
12 what has been occurring in Michigan since competition was  
13 largely repealed.

14 Michigan once again has the highest rates  
15 in the midwest. You'll see the bar in the middle  
16 represents Michigan, rates in Michigan, the next closest  
17 competitor to us in terms of high energy prices is  
18 Wisconsin. Wisconsin rates should be the highest in the  
19 MISO region, largely because of the new capacity that  
20 they brought on line over the last three to five years,  
21 and yet Michigan's rates still outpace those of even  
22 Wisconsin.

23 This graph shows the all sector rate  
24 changes in both residential, commercial and industrial.  
25 Once again, since competition was largely repealed, the



1 Michigan rates have gone up 10.4 percent, much larger  
2 increases than any other states in the midwest.

3 And I will skip over this slide, but  
4 you're welcome to take a look at the presentation on the  
5 website.

6 Our current policy in Michigan clearly  
7 picks winners and losers. The quote that's on the screen  
8 right now is from Jonas McCluskey, President of Elm  
9 Plating Company. While he certainly applauds the  
10 legislature for giving their business tax relief, his  
11 comment is it pales in comparison to the money that they  
12 could save in a competitive energy sector here in  
13 Michigan. They're looking at annual savings of between  
14 \$200,000 and \$250,000 per year.

15 William Zehnder, the owner of Frankenmuth  
16 Bavarian Inn, also has a very telling quote. They  
17 unfortunately just missed out on getting under the cap in  
18 Michigan, while their largest competitor, the business  
19 right across the street, was able to get under the cap.  
20 Mr. McCluskey -- or Mr. Zender, excuse me, doesn't feel  
21 like Michigan government should be in the position of  
22 picking winners and losers. Our policy today currently  
23 picks winners and losers.

24 Competition works, and competition works  
25 for our utilities here in Michigan. This chart shows

Metro Court Reporters, Inc. 248.426.9530

1 where DTE, through their subsidiary, is competing in  
2 states that allow competition, and they have been for  
3 quite some time.

4 This next slide is a picture of a  
5 brochure that the DTE subsidiary is sending to gas  
6 stations in the State of Illinois. The tag line, "What  
7 could you do with an extra \$300 a month in your pocket?"  
8 is one certainly that should be asked of businesses here  
9 in Michigan as well. If you look at the bottom, they  
10 have a special gas station rate of .0599, much lower than  
11 the rates that they offer their customers here in the  
12 State of Michigan. So you see, competition isn't  
13 necessarily a bad thing, certainly not a swear word, and  
14 our utilities, both of our utilities are actively and  
15 aggressively competing for business in other states that  
16 allow it.

17 Energy Choice is very popular among the  
18 voters of the State of Michigan. And again, I won't read  
19 the question, but you can do that for yourself. The  
20 point is 72 percent either strongly favor or somewhat  
21 favor the ability to shop and make decisions on their own  
22 about where to purchase their electric energy.

23 Competition shifts risks from ratepayers  
24 to shareholders. Mistakes get made, and these three  
25 headlines show the mistakes that have been made by our

1 utilities here in the State of Michigan. In a  
2 competitive market, the shareholders pay for the  
3 mistakes; in a closed market like Michigan is operating  
4 in right now, ratepayers pay for the mistakes that get  
5 made, and sometimes those mistakes result in billions of  
6 dollars of additional money being expended.

7 Long-range forecasts are often incorrect.  
8 A number of years ago, Chairman Peter Lark, who was then  
9 the chairman of the Public Service Commission, introduced  
10 his 21st Century Energy Plan. I recalled this rather  
11 clear in my mind; at the time, I was a member of the  
12 Senate Energy and Tech Committee, and I remember Mr. Lark  
13 coming to testify in front of the committee when he said  
14 we predict a 2.1-percent increase year-over-year for the  
15 next 20 years. What that would have amounted to was the  
16 additional need for 6,000 to 7,000 megawatts of energy to  
17 be built in the State of Michigan. At the time, I  
18 remember asking the question, well, why do you foresee a  
19 2.1-percent increase in energy needs? At the time, many  
20 of our businesses were starting to contract, our  
21 unemployment rate was going up, and certainly energy  
22 demand from the business, industrial and manufacturing  
23 sector was going down. His response to my question was,  
24 we believe more people will be buying air conditioners.  
25 You need to buy a lots of air conditioners across the

1 State of Michigan to make up for a 2.1-percent increase  
2 year-over-year.

3 The point of this is forecasting is hard,  
4 and forecasting, when you're forecasting, you sometimes  
5 make mistakes; but when forecasts are wrong, the  
6 ratepayers are the ones that foot the bill, not the  
7 shareholders. In a competitive environment, the  
8 shareholders foot the bill for mistakes.

9 And I'll end with this quote from former  
10 DTE CEO Tony Earley. Competition is good for Michigan.  
11 "The restructuring law and major changes in the way we do  
12 business represent enormous challenges for Detroit  
13 Edison, but we embrace competition because it enables our  
14 business to grow and excel. Our goal is to be so good at  
15 what we do that customers will choose to stick with us."

16 That was a quote from the year 2000 in  
17 the Detroit Free Press, just as Michigan was entering and  
18 having competitive markets. Well, that same sentence  
19 holds true today. Competition does work and it will work  
20 for Michigan again. Thank you again.

21 STEVE BAKKAL: Thank you, Wayne.

22 Before I introduce our next presenter, I  
23 do want to recognize members of our legislature. We do  
24 have Representative Sarah Roberts here with us, as well  
25 as Senator Hopgood, minority vice chair of the Senate --

Metro Court Reporters, Inc. 248.426.9530

1 or House -- Senate Energy and Technology Committee.

2 (Inaudible.) Would you like to say a few words, Senator  
3 Hopgood?

4 SENATOR HOON-YUNG HOPGOOD: Good  
5 afternoon. Thank you, it's a pleasure to be here. I  
6 know that we have a packed agenda, and I know that the  
7 Public Service Commission is trying to make sure it has a  
8 chance listen to everybody. And, you know, I was at the  
9 Lansing event, the kick-off event, and I think there's  
10 definitely more people at this one, although that was a  
11 packed house as well. So I want to thank all you for  
12 coming out and providing information, providing input  
13 from a wide variety of perspectives. I think this is an  
14 excellent process, and we're going to be peeking in to  
15 the Commission's process and really trying to get a feel  
16 for what they're looking at and what they're interested  
17 in, because I think that we make some good decisions out  
18 of what we do by coming together here.

19 One of the things that I remember being  
20 on the committee back in 2008 was there's a lot of  
21 discussion about the renewables' piece and how much this  
22 was going to cost ratepayers, and I think that's going to  
23 real -- been a really good experience. There were a lot  
24 of people that were saying that it was going to be too  
25 difficult, that it's going to be too costly, that we

1 wouldn't be able to get to a 10-percent rate, and if you  
2 look across the region, and across country, actually 10  
3 percent is somewhat of a modest rate actually, and so I'm  
4 interested in the next discussion about how do we move  
5 forward. We've taken a lot of feedback, looked at the  
6 numbers, Commission's put out some really good reports in  
7 the last couple years talking about the costs and impact,  
8 and so I'm going to be in the next several weeks looking  
9 at putting together legislation as a starting point to  
10 raise the portfolio standard and to extend the program  
11 for a number of years. And so I just wanted to share  
12 that with all of you. We're going through this process,  
13 and it's a good process, and I heard a lot and learned a  
14 lot and ready to engage in the conversation about what's  
15 the next step forward.

16 And so it's really a pleasure to be here,  
17 and that's what I want to share with you today. Thank  
18 you.

19 STEVE BAKKAL: Thank you, Senator.

20 Our next presenter is Susan Sherer, CEO  
21 of the Heat and Warmth Fund. Please join me in welcoming  
22 her to the stage.

23 SUSAN SHERER: Thank you, Director Bakkal  
24 and Chairman Quackenbush and Jean, for having us all here  
25 today in Detroit at NextEnergy. I love your tag line

Metro Court Reporters, Inc. 248.426.9530

1 about ask us what's next, and I'm going to talk a little  
2 bit about what I think can be next for our low-income  
3 energy customers in Michigan.

4 As I said, my name is Susan Sherer, I'm  
5 with the Heat and Warmth Fund, and we're here today by  
6 invitation from the State of Michigan to offer some ideas  
7 to the challenges that face the low-income population  
8 with regard to energy affordability. We believe there is  
9 a tremendous opportunity to inspire accountability and  
10 energy efficiency among low-income customers statewide.

11 A little bit about THAW. We are a  
12 statewide organization, we've been in existence for 27  
13 years, started by DTE Energy. We are the largest  
14 provider in energy assistance outside of the Department  
15 of Human Services; and since our inception, we've  
16 distributed over \$110 million in energy assistance to  
17 more than 160,000 households.

18 So energy. Energy is an essential  
19 commodity, and we use it before we buy it. Not only  
20 that, we don't even really know how much we use before we  
21 buy it. We heat our home, we turn on our lights, we  
22 watch TV, we take hot showers, and the energy bill shows  
23 up a month later. Many people in our State can't afford  
24 the energy they consume, and in the current system, a  
25 low-income household can go into debt very, very quickly.

1 So reform is needed, and charity can not be the only  
2 option. We need to make changes that inspire and drive  
3 new behavior.

4 We believe that all households have the  
5 potential to use less energy, and that those in need will  
6 make a greater contribution if they have a better  
7 understanding of what energy costs, how much they use,  
8 and how they can use less of it. The current system does  
9 not inspire that potential.

10 In today's system, customers without  
11 resources are offered credits essentially and go quickly  
12 into debt. We want to build a system that moves upstream  
13 before they owe thousands of dollars. So what would that  
14 look like if we provided energy assistance in small  
15 amounts that's coupled with the customer payments closer  
16 to when the energy is used, all this while reducing  
17 energy costs in the home? So a bill for Mary and  
18 Michelle, instead of allowing them to get into a  
19 situation where they're \$2,000 in debt, and it's  
20 overwhelming for someone without resources, how do we get  
21 upstream on that and start at the very beginning with  
22 that customer and work with them?

23 So what does a winning situation look  
24 like in Michigan? I'm going to give you an illustration,  
25 and I'm going to ask that you suspend for a moment this



1 idea that energy costs will go up. So just ask you to  
2 suspend that for a moment, I'm going to assume that the  
3 really smart, talented, brilliant people in the State of  
4 Michigan are going to find a way to lower energy in the  
5 next five years. But this is an illustration that really  
6 doesn't take into account that energy costs also rise.  
7 So right now it's about \$2,500 a household. You can see  
8 that the green area there is the customer payment, and  
9 the blue area is the federal LIHEAP, and the unmet need  
10 right here of about \$1,000 is what currently the State or  
11 other foundations, donations, corporations, help meet  
12 that gap.

13 So in two to three years, if we were just  
14 able to reduce the energy in that home by 10 percent, and  
15 some of these homes, that would not be a hard thing to  
16 do, and if the customer also contributed about \$10 more a  
17 month, we could really impact this overall load right  
18 here. Let's say in three to five years we were able to  
19 do that by five percent more and then just another \$100  
20 from the customer, so over time about \$18, \$20 more a  
21 month over that five-year time period and just a small  
22 reduction.

23 So again, THAW wants to be about reducing  
24 energy. We believe that working in partnership with  
25 organizations, changing the behavior in the household

1 through consumption or through the structure, decreasing  
2 energy utilization on the top, and then on the bottom,  
3 stimulating payment performance, again in small amounts,  
4 meeting the customer where they are, this increased  
5 alignment can potentially drive 58-percent reduction in  
6 this unmet need that is here.

7 So how are we doing that now? Our  
8 current -- let's see, let me get back to the right slide.  
9 To achieve this, we have several public/private  
10 partnerships at THAW, and we have a team of experts  
11 working on the next generation interventions that will  
12 complement the utilities' solutions while working with  
13 the particular needs of the low-income customer with the  
14 goal of self-sufficiency.

15 Our ongoing partnership with DTE was a  
16 launching pad for our mobile processing, so taking the  
17 help to the neighborhoods, in the church basements and in  
18 the community centers. The DTE Neighborhood Energy  
19 Center and the more recent Care Management Pilot are  
20 great examples of partnering to understand the pain  
21 points and the potential, the potential of our low-income  
22 customers. These small collaborative pilots informed  
23 what is now a full-scale program called LSP, Low-Income  
24 Self-Sufficiency Pilot Program -- I can't say that  
25 fast -- but LSP, and that offers affordable rates.

1                   A year ago THAW entered into partnerships  
2                   with Consumers Energy, the Department of Human Services,  
3                   and CLEAResults, and we hired a global product design  
4                   firm to perform a behavioral study of low-income  
5                   customers in Flint, and from that study we identified a  
6                   set of guiding principles that have informed all of our  
7                   work, all of our pilots, and will inform our work moving  
8                   forward.

9                   So these guiding principles, pretty  
10                  simple: Meeting a customer where they are. Giving them  
11                  control. We need to give them control in charge of their  
12                  destiny. We need to enable quick wins, it can't be a  
13                  complicated process.

14                 Our Clear Control Pilot is just an  
15                 example to give you some ideas of where we're headed, and  
16                 we hope that policy and reform will support this. Clear  
17                 Control will test a completely redesigned billing and  
18                 payment system that addresses the unique needs of  
19                 low-income customers. It will feature frequent billing,  
20                 pay-as-you-go, daily consumption will be communicated via  
21                 text message, e-mails, telephone calls, telling that  
22                 customer, this is the number of days that you have energy  
23                 left. It will also give access to preapproved aid. So  
24                 subsequent iterations of the Clear Control will employ  
25                 technologies such as prepaid kiosks, a phone app, this

1 will allow THAW and our utility partners to scale this  
2 initiative to thousands of low-income customers in need.

3 Reform as we define it enables agencies  
4 like THAW to move from being a charitable giving  
5 organization to a practical social innovator, developing  
6 and providing realtime solutions to Michigan's utilities,  
7 while equipping low-income customers to pay for the  
8 energy they used. We believe that social innovation and  
9 entrepreneurship is the key to reforming Michigan's  
10 social innovation, the key to social services system.

11 This is evidenced by our recent  
12 cosponsorship with Consumers Energy of MEDC's Pure  
13 Michigan Social Entrepreneurship Competition. If we have  
14 any social entrepreneurs in the room, be sure to sign up  
15 this for this, it's a prize competition called Fostering  
16 Energy Affordability. There's copies of the press  
17 release describing this opportunity found on the table  
18 outside.

19 So in conclusion, as new policy is  
20 developed, we ask stakeholders to consider the challenges  
21 and special needs these customers face regarding energy  
22 affordability. We can not continue to offer a  
23 one-size-fits-all, and we are requesting that the  
24 Commission, legislators and other stakeholders offer  
25 flexible plans that serve the low-income customer. We

1 believe that there's potential to reach them before they  
2 enter crisis, to inspire accountability, and to serve  
3 more people without incurring greater cost to the  
4 taxpayers in Michigan. Thank you very much.

5 STEVE BAKKAL: Thank you, Susan. Our  
6 next presenter is Nick Khouri, Vice President of  
7 Regulatory Affairs from DTE Energy. Please join me in  
8 welcoming Nick to the stage.

9 NICK KHOURI: Good afternoon. As you  
10 heard, my name is Nick Khouri, I head up the Regulatory  
11 Group at DTE Energy. It's a pleasure to be here today,  
12 and it's an honor to be on this panel with the other  
13 panel members.

14 As you will hear, we sometimes, sometimes  
15 frequently disagree on issues, but it has nothing to do  
16 with the respect we hold for either the individuals or  
17 the organizations, and we welcome and encourage the  
18 continued debate about the appropriate solutions and  
19 alternatives for energy policy in Michigan.

20 Before I respond to a few of the specific  
21 questions that were asked, let me say a few words about  
22 DTE Energy. At DTE Energy, nothing is more important  
23 than providing secure, reliable and affordable  
24 electricity and natural gas to over 5 million Michigan  
25 citizens. We have been meeting Michigan's electricity

1 and gas needs for over 150 years. And that's important,  
2 it's important to us, it should be important to you,  
3 because our investments, our planning and proposed policy  
4 changes need to recognize the impact, not just today, but  
5 on future generations.

6 We are, as you know, Michigan-owned,  
7 Michigan-operated, and we take our responsibility to the  
8 State seriously. For example, we were one of the first  
9 companies to participate in the Pure Michigan Business  
10 Connection Initiative in an effort to purchase more of  
11 the goods and services from Michigan-based suppliers.  
12 Last year DTE Energy spent over 800 million with  
13 Michigan-based suppliers, nearly double what we spent in  
14 2010. Here in Detroit, spending with companies in the  
15 city rose to over \$100 million from about \$80 million in  
16 2010. In terms of statewide employment, the electric  
17 industry as a whole is responsible for 25,000 good-paying  
18 jobs. When you add the indirect jobs, that number more  
19 than doubles to 60,000.

20 And our commitment to the communities we  
21 serve is also reflected in efforts to make sure the  
22 neediest families have access to the support they need to  
23 pay their utility bills. That's why in response to the  
24 recession, we ramped up our efforts to identify and reach  
25 out to Michigan families in need. Through these efforts,

1 we are now connecting 50,000 customers per year with more  
2 than \$100 million of energy assistance.

3 We've been working diligently, as many  
4 groups have, to respond to the more than 100 plus  
5 questions that were asked of us a few months ago. In my  
6 limited time today, I want to focus on just three key  
7 sets of data and analyses that will support future energy  
8 decisions, decisions that will deliver what Michigan  
9 families and businesses expect; the most reliable  
10 electricity at the most affordable price. We think the  
11 data and analyses demonstrate these three things:

12 First, electric deregulation in other  
13 states hasn't delivered on the promise of lower rates.

14 No. 2, second, the experience in other  
15 states shows that a reliable source of electricity is  
16 best assured by a system of responsible regulation.

17 And third, Michigan's 10-percent  
18 deregulation cap has led to savings for a small group of  
19 customers, but has raised rates for 99 percent of  
20 Michigan families and businesses.

21 Before I address these questions  
22 directly, let me just say a few words about electric  
23 rates in Michigan. As I said, a key goal of state policy  
24 is to make sure access to electricity and natural gas is  
25 affordable for Michigan families. It's true that

1 residential electric rates in Michigan are about 10 to 15  
2 percent above the national average. Business rates, by  
3 the way, are about 5 to 10 percent above the national  
4 average. However, to really understand affordability, we  
5 need to look at utility bills, not just rates. What's  
6 important for Michigan families is the dollars going out  
7 the door each day and each month to pay your electric  
8 bills, not the mathematical formula of cents per kilowatt  
9 hours.

10 And as you can see on this slide, the  
11 average electricity bills for Michigan are actually 20  
12 percent below the national average. In fact, this  
13 relationship between average use and rates explains a  
14 large part of the differences across states. In this  
15 chart, we show the relationship between average use and  
16 rates for all 50 states. There's a very tight  
17 relationship. For example, Louisiana uses 73 percent  
18 more electricity than Michigan, and has some of the  
19 lowest rates in the nation. On the other end of the  
20 spectrum, can you see that Vermont uses on average 30  
21 percent less electricity and has some of the highest  
22 electric rates. It's also true that this relationship  
23 hold for the midwest. You can see Ohio and Indiana use  
24 on average 30 to 50 percent less electricity than we do  
25 in Michigan.



1                   Now, it makes sense, this relationship  
2                   between rates and bills. So much of the cost of the  
3                   electricity system are fixed by the operating  
4                   requirements of the system. For example, we need to  
5                   construct and maintain the poles and wires that lead to  
6                   your house whether you use twice as much electricity as  
7                   your neighbor or half as much. This reality of  
8                   low-average use in Michigan, in addition to other states  
9                   having access to cheaper coal and hydro power, explains  
10                  nearly all the difference in relative rates.

11                  But now, of course, our goal is to  
12                  deliver the most reliable service at the lowest possible  
13                  cost to every family and business we serve. One way is  
14                  by improving efficiency in everything we do. We're proud  
15                  to report that we are controlling our operating costs,  
16                  shown here on the next slide, better than any other large  
17                  utility in the nation. Over the last five years, this is  
18                  from 2007 to last year, we're the only major utility in  
19                  the country that has lowered our operating costs. We did  
20                  this so we can pass these savings on to customers. In  
21                  that spirit, we're committed to not increasing DTE's  
22                  electricity rates through 2015, even though we haven't  
23                  raised rates since 2011, and we're in the middle of a  
24                  very large high-investment period.

25                  But let me get back to the data and the  
                    Metro Court Reporters, Inc.   248.426.9530

1 analysis that I mentioned earlier. For most of our  
2 industry's 150-year history, states have maintained an  
3 approach of fully regulating electricity generation under  
4 a system of uniform governmental oversight and  
5 accountability. This has allowed utilities to focus on a  
6 long-term approach to building electric infrastructure  
7 and delivering the electricity that families and  
8 businesses rely on, and to grow at a pace our economy  
9 demands.

10 Now, during recent years, a few states  
11 have tried the path of deregulation for the generation of  
12 electricity. Proponents of deregulation have argued that  
13 it would lower rates for all customers, both now and in  
14 the future. But there are two problems with this  
15 argument: First, it's not true. Prices in deregulated  
16 states are higher than in regulated states, as you see on  
17 this chart, about 30-percent higher, and have increased  
18 about the same pace as regulated states during the last  
19 decade. What you can see over the last decade again, as  
20 shown in this slide, rate increases in regulated states  
21 and deregulated states have grown about same, so it's not  
22 true, at least we haven't seen in the last decade that  
23 deregulation either lowers rates for all customers or  
24 lowers the absolute rates or slows the increase. So the  
25 argument just doesn't hold water.

1           The second problem with deregulation, I  
2 believe, I believe deregulation puts at risk the core  
3 responsibility of what we do, which is assuring Michigan  
4 families and businesses electricity will be there when we  
5 need it, both today and into the future.

6           Just let me say a few words about this  
7 relationship. Most of you already know about the  
8 relationship between deregulation and reliability.  
9 Providing affordable, reliable electricity to thousands  
10 of communities and millions of families in Michigan, it's  
11 complicated business, as you know. It's important to  
12 understand what makes electricity different from other  
13 industries.

14           First, electricity is so important to our  
15 economy and way of life that the industry traditionally  
16 has built and managed electric generating capacity so  
17 that it can meet peak demand under even the most extreme  
18 circumstances.

19           And second, unlike other products, you  
20 can't store electricity, so electricity production,  
21 transmission and distribution all happens virtually  
22 simultaneously. This makes the electricity industry  
23 different than any other industry.

24           At DTE, for example, for a few hours on a  
25 hot August afternoon, we need to meet the demand for

1 electricity that is nearly three times greater than the  
2 low point of the year. In addition to being able to  
3 respond to unforeseen events, it's our responsibility to  
4 have another 10 to 20 percent of generation capacity just  
5 be available just to be called upon even though it's  
6 rarely used.

7 In a deregulated market, the market will  
8 not build the right generation at the right time to  
9 supply power that is used only a few hours a year, if at  
10 all. It's building these power plants that makes the  
11 reliability of the U.S. electric system the envy of the  
12 world and powers Michigan's economic prosperity. It's  
13 our responsibility to make sure that when families and  
14 businesses we serve need the electricity they rely upon,  
15 it's there. We take this fundamental responsibility  
16 seriously. We build all our policy positions around it.  
17 And it's the regulatory structure that allows us to make  
18 investments year-in and year-out to maintain our diverse  
19 portfolio of generation assets.

20 A current example of the problems of  
21 reliability and deregulation is in Texas. Both  
22 regulators and policymakers are concerned about meeting  
23 Texas's electricity demand during the hot summer months.  
24 Since deregulation, which you see here, was started in  
25 2002 in Texas, Texas generation has fallen from

1 significantly above the minimum level needed to ensure  
2 reliability to, as you can see, dangerously below. Now,  
3 as a result, policymakers in Texas are scrambling to  
4 avoid the potential for blackouts and brownouts.

5 Other states have faced the same  
6 challenges. Seven other states, Arkansas, California,  
7 Nevada, New Mexico, Arizona, Montana, Virginia, thought  
8 deregulation was the answer. But all those states now  
9 have reversed and are moving back to responsible  
10 regulation, because they have seen the negative  
11 consequences first-hand. That is why we believe  
12 responsible regulation has worked for the last 150 years  
13 and is still the model for 35 states.

14 Now, let me move to Michigan for just a  
15 few more minutes, which we adopted a deregulation cap in  
16 2008. DTE continues to support that workable but  
17 imperfect compromise that limited negative impacts of  
18 deregulation in Michigan. But the result of Michigan's  
19 deregulation can be shown in the next chart. The  
20 overwhelming majority of citizens pay higher prices so  
21 that a small minority can benefit; that's because those  
22 who remain in the regulated market pay the basic costs  
23 that are required to keep the system running and  
24 reliable. Increasing the deregulation cap would only  
25 shift more of the cost from the many to the few.

1 Michigan families and businesses deserve fairness for  
2 every customer, not just a select few.

3 Let me conclude by just describing our  
4 vision for Michigan's future. To us, our vision is all  
5 about what Michigan families and businesses deserve.  
6 They deserve a Michigan where electricity service is even  
7 more reliable, affordable and efficient than it is today.  
8 We all want a better Michigan for our future and the  
9 future of our children and grandchildren. We all know  
10 our State deserves better, and at DTE we have a  
11 responsibility to do our part to make Michigan better  
12 than ever, and we take it seriously. They deserve a  
13 Michigan that is energy independent and secure, they  
14 deserve a Michigan that's cleaner, a healthier Michigan  
15 whose electricity is generated as efficiently and as  
16 responsibly as possible at facilities located within our  
17 border, operated and maintained by Michiganians.

18 We are committed to working with the  
19 Commission, the administration, interested parties and  
20 the legislature to develop, adopt and implement policies  
21 to turn this vision of Michigan's energy future into a  
22 reality. Thank you.

23 STEVE BAKKAL: Thank you, Nick.

24 Our next presenter is George Andraos,  
25 Director of Energy for Ford Motor Company. Please join  
Metro Court Reporters, Inc. 248.426.9530

1 me in welcoming George to the stage.

2 GEORGE ANDRAOS: Good afternoon.

3 Director Bakkal, Chairman Quackenbush, thanks very much  
4 for giving me this opportunity to represent Ford Motor  
5 Company in this forum.

6 I would like to start my presentation in  
7 reading the sustainability vision that our chairman,  
8 Executive Chairman Bill Ford set for us. Our vision for  
9 the 21st century is to provide sustainable transportation  
10 that is affordable in every sense of the word, and that  
11 is environmentally, socially and economically viable.  
12 And we look at this not just as a requirement, but a  
13 tremendous business opportunity for Ford Motor Company.

14 In this next slide, I bring it all  
15 together for us, environment, economic and social, and  
16 sustainability is in the heart of it, and that really  
17 leads to processing in our vehicle and also our  
18 manufacturing and dealerships.

19 I'm going to talk just a little bit about  
20 Ford Motor Company, and then I will go into where our  
21 energy use is mostly in the manufacturing facilities.

22 This is our Ford's Power of Choice  
23 Line-up and our efficiency, from ecoboost, hybrid and  
24 plug-in hybrid and electric. And I want to touch a  
25 little bit of my presentation today talking about the

Metro Court Reporters, Inc. 248.426.9530

1 impact of the electric and the plug-in hybrid on the  
2 future of energy.

3 This is our offering today, and it, I'm  
4 proud to say that three of the vehicles are produced here  
5 in Wayne, Michigan, and this is a very important part of  
6 our business today.

7 The reason for the importance of the  
8 vehicle into the future of energy, as you can see, this  
9 chart represents the increase in the use of the electric  
10 transmission, which is electric vehicles and plug-in  
11 hybrid. It took almost eight years to get to the, around  
12 the 2 percent, and in the last two years it went up to  
13 the next percent, so there is -- we see tremendous  
14 (inaudible) in that area, and we need to make sure that's  
15 not ignored as we plan the future of our energy.

16 And just kind of a few words about Ford's  
17 presence here in the State of Michigan. We have over  
18 40,000 employees, almost every product we made has some  
19 kind of roots or relationship to Michigan. We have 13  
20 major manufacturing facilities; this is the home of our  
21 product development, research and engineering centers and  
22 testing facilities; and 2012, we purchased over 15  
23 billion in goods and services in Michigan-based  
24 suppliers. So Michigan is very important for us.

25 This is just a quick slide to see kind of  
Metro Court Reporters, Inc. 248.426.9530



1 how the distribution of our suppliers in the State of  
2 Michigan.

3 Next I want to talk a little bit about  
4 what Ford has done in efficiency. We're a strong  
5 believer that energy efficiency is very important,  
6 fundamental aspect of the future of energy. We made a  
7 commitment, we made it publicly last year to improve our  
8 energy efficiency for vehicle production by 25 percent in  
9 5 years, that's between 2011 and 2016. Each facility  
10 globally requires they have a road map, that's including  
11 the 15 manufacturers' facilities we have in Michigan and  
12 our resource and engineering center, and we developed an  
13 operating system to drive that behavior in our company.  
14 We've developed an operating system that looks at  
15 process, design and culture. We look how to redesign our  
16 facilities to be efficient, to put the (inaudible)  
17 efficient processes inside, and also change the culture.

18 My apologies here for pushing the wrong  
19 button. So when we look at what Ford has done, we  
20 started in 2008, this is our kilowatt hours per vehicle  
21 globally. Between then and 2011, we improved our  
22 efficiency by 22 percent, and we're looking to add  
23 another 25 percent.

24 (Inaudible) and bring it here home in the  
25 State of Michigan. We look at last year, we improved our

1 efficiency per vehicle by 7.6 percent, and if you take a  
2 look at what that represents between electricity and  
3 natural gas, 224,000 megawatt hours, and that's  
4 equivalent to about 20 wind turbines.

5 And I take it a step closer to one of our  
6 manufacturing facilities that actually produce electric  
7 vehicle. Between 2000 and 2010, we improved efficiency  
8 by 36 percent, and that's comparing 2008 and '12 are sort  
9 -- 2000 to 2012 are the years where we have some of the  
10 production volume. This is not playing on the number,  
11 this is really an effort what we've done in lighting  
12 upgrade, HVAC, the process upgrade, and they can see our  
13 process.

14 We've been very active in renewables  
15 across the globe, and wind turbines and hydro and also  
16 combined-cycle and geothermal and solar. We supported  
17 the Michigan RPS in 2008, and we need to be part of  
18 comprehensive energy solution, we need to make sure we're  
19 making the right decisions for the State and to create a  
20 sustainable and socially and economically viable  
21 solution.

22 And here I would like to talk a little  
23 bit about the cost of energy and what it means to Ford  
24 Motor Company. If we look at this chart here, this takes  
25 our costs in the states, this is where we have in

1 manufacturing facility here in the midwest. Our costs of  
2 energy in the State of Michigan is, this is kind of  
3 significantly higher, as you can see, from the other  
4 states, and I'm showing here the states where we have  
5 Choice and also the states that regulate. This is a big  
6 concern for us, as it is to many of the industries in the  
7 State of Michigan. Higher costs drives businesses away  
8 from Michigan. For Ford Motor Company, truly when we do  
9 a program, a program could potentially be in our plants  
10 in Livonia Transmission Plant or it could be transmission  
11 plant in different states. Same thing in engine plant,  
12 could be an engine program in Romeo or it could be in  
13 Lima, Ohio. And there are very few variables that impact  
14 the cost of a new program, because it's going to be very  
15 much from labor perspective and investment is the same,  
16 the two key variables are energy and transportation, and  
17 we are concerned that high cost will drive business away  
18 from Michigan.

19 We are in the State of Michigan the  
20 largest customer for DTE, over 100 million, and you could  
21 do the math. When you have a significant increase, 20  
22 percent in energy cost over other states, it's a serious  
23 concern for Ford Motor Company.

24 And here in summary at the end of my  
25 presentation is we need to make sure that the new

1 vehicles are growing part of utility business. We need  
2 to take a very hard look. I believe other states have  
3 been more progressive in looking at that. It's not an  
4 issue today, but in a few years, the increase in the  
5 plug-in hybrids and electric vehicles is going to play a  
6 key role, and it could be a detriment for the system or a  
7 it could be a cost in the future. Cost is a big issue  
8 for us.

9 And renewable is important, we support  
10 renewable, we really need to make sure at same time it's  
11 not driving the cost up. We need to do a smart renewable  
12 policy. Energy costs impacted many areas, it impacts our  
13 bottom line, it impacts us to all the suppliers, and also  
14 drives business away from Michigan. If I don't leave you  
15 with any important statement here, is business will go  
16 away from Michigan in our situation with higher energy  
17 costs.

18 We're committing to work with the State  
19 here on future of energy and we appreciate this  
20 opportunity. Thank you.

21 STEVE BAKKAL: Thank you, George.

22 Our next presenter is Stacy Paradis,  
23 Deputy Director of the Midwest Energy Efficiency  
24 Alliance. Please join me in welcoming Stacy to the  
25 stage.

1 STACY PARADIS: Thank you, Chairman  
2 Quackenbush and Director Bakkal, for having me today.  
3 Again, my name is Stacy Paradis, I'm Deputy Director of  
4 the Midwest Energy Efficiency Alliance based in Chicago.

5 Just to give you guys a little sense of  
6 who we are, we are in 13 states in the midwest, we have  
7 about 150 organizational members. There is a whole gamut  
8 of us involved in energy efficiency; so utilities, state  
9 and local governments, as well as manufacturers,  
10 retailers, commercial and consumer advocates, as well as  
11 academic and research corporations and energy service  
12 companies and contractors. We've been around since 2000.

13 Our real focus is on two things regarding  
14 energy efficiency. We are recognizing that it supports  
15 sustainable economic development, and that's tied to  
16 cost-effective efficiency programs, as well as building  
17 energy codes. Those are things that we support on the  
18 policy side. Our goal is really to find a common ground  
19 for all the folks that are involved in energy efficiency,  
20 because our goal is to save energy. That's what we're  
21 all looking for.

22 So just to give you a sense of where  
23 Michigan is, you see before you a list of our members in  
24 Michigan; again, they're kind of a diverse network. But  
25 some of the things we've been involved in here, we have

Metro Court Reporters, Inc. 248.426.9530

1       been working on building energy codes, we have held  
2       energy expos at the capitol highlighting all of these  
3       Michigan-based businesses that are involved in energy  
4       efficiency and all those jobs, as well as a lot of the  
5       industries that are based here, which I'll talk about a  
6       little bit later.

7               Another thing we were looking forward to  
8       that's a growing opportunity in Michigan is related to  
9       solid-state lighting. We had the opportunity to work  
10      with the State Energy Office last year, and we're looking  
11      to do that this fall with the Commission this year, so  
12      it's an opportunity we look forward to to growing a new  
13      industry in Michigan.

14             What is energy efficiency? There's a lot  
15      things on this chart, so I apologize for that. But the  
16      reality is this: Energy efficiency is really allowing  
17      people to -- it doesn't mean forcing you to stop doing  
18      something, it just says a technology-driven process  
19      allows you to do more with less energy. That could mean  
20      changing your lighting in your home or your business, it  
21      could also mean insulating your building so you have less  
22      wasted heat. It's an essential role in the supply/demand  
23      curve, what we're talking about related to energy.  
24      You've seen a lot of that talked about today.

25             But what it comes down to is the cost of  
Metro Court Reporters, Inc.   248.426.9530

1 energy. You can see from the slide right up here,  
2 average cost to generate electricity is just under, in  
3 2010, it was just under 10 -- I'm sorry -- 10 cents per  
4 kilowatt hour. Energy efficiency is only at 2 1/2 cents,  
5 and I think Director Bakka mentioned this earlier, three  
6 times less, so it's much better to focus on energy  
7 efficiency, save that energy, as opposed to generating  
8 new. That helps our businesses, that helps our  
9 consumers.

10 Just a couple things to reassert what 295  
11 has done, and that was the energy efficiency portfolio  
12 standard that was put in place in 2008. The focus here  
13 was for your investor-owned utilities and your publicly  
14 owned municipal and your cooperatives to save, on the  
15 electric side, 1 percent a year, and .75 percent on the  
16 gas side annually. That is something that they were  
17 supposed to hit by 2012. All of those utilities have met  
18 those requirements, and I'll show that to you shortly.

19 But I think one thing that's really  
20 important to mention, we talked about it a little bit  
21 today, and Governor Snyder has been really important in  
22 recognizing this, but he had a great quote, which is:  
23 Energy efficiency is the best example of a no-regrets  
24 policy that Michigan can have. It does really focus on  
25 his key goals of more reliable, more affordable, and

1 protecting our environment.

2 I was asked to you give you a synopsis of  
3 how Michigan compared to other states. So you'll see  
4 before you, these are by state of what the mandated  
5 requirements are of renewable energy efficiency, and also  
6 on the investment. So you see there's been a huge growth  
7 in energy efficiency in the midwest in the last six  
8 years. In particular, you'll notice, though, it's grown  
9 from, it's almost a \$1.7 billion industry based on  
10 standards that are in place by 2015. So in Michigan,  
11 that investment in energy efficiency is going to grow to  
12 \$270 million by 2015.

13 But let's talk about what that means.  
14 What does that mean related to jobs, which is what  
15 everyone is concerned about here, especially in Michigan?  
16 Now, these are 2010 numbers, and they were still ramping  
17 up in the energy efficiency investment here, so these  
18 numbers are only going to get bigger. And you'll notice  
19 in the pie chart the diversity of sectors that those are  
20 involved in. So these are jobs that are available to a  
21 lot of people throughout the spectrum; we're talking  
22 about contractors, we're talking about folks that are  
23 working on assembly lines, we're talking about folks that  
24 are also doing energy audits and things like that, so  
25 again, it's the full spectrum. You'll see how it



1 compares again to states around the midwest.

2 And then Director Bakka -- or I'm  
3 sorry -- Chairman Quackenbush mentioned this report that  
4 was released by the Commission in 2010. It really just  
5 tracks the amount of jobs. So in this previous slide --  
6 which I did not highlight, I apologize -- Michigan jobs  
7 were a little over 11,000. If you talk about how those  
8 are going to be over the lifetime, we have an increase of  
9 13,000 jobs over a 20-year lifetime. And look at the  
10 impact that's going to have on gross state product.  
11 That's going to be nearly \$1 billion over the 20-year  
12 period, so that's an incredible investment in the State  
13 of Michigan.

14 This (inaudible) here just shows you what  
15 the utilities in the State have done related to the  
16 mandate that was put in place; essentially all those  
17 targets have been met. This is the most important fact,  
18 though, I think: When you talk about the investments  
19 that have been put forth, for every dollar that's been  
20 invested, \$3.55 has been returned to the local economy.  
21 So what that means is for consumers and for businesses,  
22 that's more money in their pockets, that's money they can  
23 invest in their families and their communities and in  
24 their business, themselves, it's also something that  
25 makes those businesses more competitive.

1                   Again, to show you the comparison of how  
2                   those savings and how that investment ties to the rest of  
3                   the midwest, you can see again, these are 2010 numbers,  
4                   for some of them we got the 2011, Michigan is doing very  
5                   well when you consider the standard had not yet matured  
6                   at that point.

7                   But what does all this mean to what the  
8                   gentleman from Ford was just talking about? How does  
9                   this influence the industrial sector? So your industrial  
10                  sector in Michigan is 26 percent of your energy usage,  
11                  but that ranks 11th in the United States. What can  
12                  energy efficiency do for those businesses? And this is  
13                  the sector that is facing mounting, mounting pressures  
14                  that we just heard. Energy efficiency is essential; it  
15                  helps them maintain competitiveness, it helps them  
16                  maintain a skilled workforce, increased productivity, and  
17                  assures that those manufacturers remain in the State. I  
18                  think the gentleman from Ford was very clear in putting  
19                  that forth.

20                  But you'll see here some examples of  
21                  companies based in Michigan and what they've already  
22                  committed to on energy efficiency and how they have  
23                  talked about the beneficial investment. Aside from Ford,  
24                  you have GM that's done some Energy Star investments in  
25                  some of their plants; Guardian Industries, which does

1 windows and glass manufacturing, have been very involved;  
2 Dow Building Solutions, which I think you guys heard from  
3 a few weeks ago, they have a substantial interest in  
4 insulation and a lot of home building supplies; and then  
5 you have Whirlpool, which is obviously a national --  
6 international leader when it comes to energy efficiency  
7 in their appliances.

8                   So what does all this mean? Again, when  
9 we want to talk about what this investment means and  
10 speculating on what new industries can come, energy  
11 efficiency is already generating jobs in Michigan, so  
12 it's something we need to continue going forward. 2,500  
13 plus trade allies, and just in those first three years,  
14 over \$660 million in investment statewide. And that's  
15 just the beginning of what the benefits of energy  
16 efficiency are going to bring to the State.

17                   So I think it's essential as we talk  
18 about what to do and what kind of report the Commission  
19 is going to give to the legislature next year, what kind  
20 of investment should be continued in energy efficiency to  
21 help the overall economy obviously, but increase jobs and  
22 save Michiganders money.

23                   A couple of things to highlight what  
24 Michigan's done very successfully compared to other  
25 states in the midwest. They put together a deemed

1 savings database, that's something that's been done  
2 through the Commission, that's had a great benefit,  
3 including efficiency on the back end of the process; you  
4 have cost recovery for the utilities, you have  
5 performance incentives, we've heard a little bit before  
6 about low-income programs, as well as the nationally  
7 recognized Michigan Saves.

8 A couple things to think about, and this  
9 is my final thoughts: Building energy codes. Again, as  
10 I mentioned, you have a lot of industries here in  
11 Michigan that are producers of these; these not only  
12 create jobs here in Michigan, that's also going to save  
13 businesses and consumers money in the long term. Energy  
14 efficiency is something that it is a great service to  
15 those consumers, again giving them more money in their  
16 pockets. There's an opportunity for our government to  
17 save money, and that's true in both the lead by example  
18 in public building and benchmarking commercial building,  
19 as well as just saving things for our environment.

20 Thank you.

21 STEVE BAKKAL: Thank you, Stacy.

22 That concludes our formal presentations  
23 at this point. I think it's a good time to take a break.  
24 Let's reconvene at quarter after 3:00. There's some  
25 refreshments out in the lobby, then we'll come back and

1 we'll start our public forum. Thank you.

2 (At 3:03 p.m., there was a 20-minute recess.)

3 - - -

4 STEVE BAKKAL: O.K. I think we're ready  
5 to start. We have close to 80 requests to speak, and  
6 like I mentioned earlier, we are scheduled to end here at  
7 5:00, but from talking to the staff here at NextEnergy,  
8 we can stay here until 6:00 o'clock, so just accommodate  
9 as many requests as possible. Based on historical forums  
10 that we've gone through, we've been able to get through  
11 at least 30, close to 40 sometimes when we stay until  
12 6:00, but that does mean that we have to limit each  
13 speaker to three minutes and three minutes only.

14 We have someone here in the front that  
15 will be signaling the speaker when their time is getting  
16 ready, when they have a minute left and when time is  
17 concluded. There are a lot of people that are here that  
18 drove distances to come here, so please adhere to that  
19 time and respect people's desire to speak here. And just  
20 to move things along quicker, what I'm going to be doing  
21 is calling four speakers at a time, and if those four  
22 speakers could come up and take a seat behind me, and  
23 they can just each start coming up as they're called, and  
24 the next one can come on up on their own.

25 I'll state the names the first time.

Metro Court Reporters, Inc. 248.426.9530

1 When you come up, please just state your name, where  
2 you're from, and any affiliation that you have. Some of  
3 the speakers that requested to speak did have some  
4 presentations that are loaded here, so feel free to show  
5 us those when they come up.

6 So with that, let's introduce our first  
7 four speakers. Again, just come to the front here.  
8 Clayton Donnell, Jennifer Battle, Paul Beck, and Reese  
9 Serra, if you can all come up at this point, and Clayton  
10 can come up right to the stage. Thank you.

11 CLAYTON DONNELL: Good afternoon.  
12 Welcome back from the break. Thank you for the  
13 opportunity to speak.

14 I'd just like to take a moment. The  
15 State is asking us to come up with reports that tell us  
16 what needs to happen for energy policy in Michigan. Many  
17 reports have been done; one that I like to allude to is  
18 the American Council for an Energy-Efficient Economy.  
19 They do a state scorecard. Michigan ranked 12th in the  
20 United States in the scorecard. And the gist of the  
21 matter is that none the states, Massachusetts being  
22 number one, has a complete handle on everything. We can  
23 all learn from the other states.

24 That being said, you can look at the  
25 ACEEE score card on your own, but I would like to go

Metro Court Reporters, Inc. 248.426.9530

1 beyond that and challenge the legislators and  
2 policymakers that it's not just about data, because if we  
3 institute a program, it will be carried out for those  
4 people who know about it. A good energy policy program  
5 has to be woven into the fabric of every Michigander's  
6 life. It starts at the inception when we work on our  
7 fundamental things that we do every day.

8 I own an insulation company. We do  
9 energy efficiency retrofits. We're where the rubber  
10 meets the road every day. There are children running  
11 around in the street that have no idea what energy  
12 efficiency is all about. As a state, include those  
13 children into that comprehensive program. Let's have a  
14 state-funded science fair that talks about energy  
15 efficiency. Let's have fundraising events through energy  
16 efficiency measures. Yes, it can be done.

17 Let's start with the brand new houses  
18 that are being built and give them an energy rating  
19 score, if you will, so that we can compare them to the  
20 rest of the houses that are already existing in the  
21 market, and we have no idea how they're going to compare.  
22 It might look something like this. The ASHRAE Standard  
23 62.2P says we should have eight fresh air exchanges in  
24 every house per day. Let's just say the perfect house is  
25 an 8, and if we go out and do a blower door on another

1 house and that's a 10, it's close, but not quite good  
2 enough; and when we look at another house that's at a 12,  
3 it's not as good as the 10. It's a pretty common or  
4 pretty easy concept to understand. I'd like to see that  
5 instituted in the State, that every structure in the  
6 State of Michigan has that kind of a rating. We start  
7 with those that are changing hands; so if a house is  
8 being bought or sold, we do an energy audit and we record  
9 it, and we compare it to those others going down the  
10 line.

11 I'd also like to recommend that as we  
12 weave this into the fabric of life, that the State of  
13 Michigan leads by example, retrofitting the government  
14 buildings; that the marketing program through Pure  
15 Michigan dovetails into energy efficiency. So I  
16 challenge the legislators and policymakers that, you  
17 know, it's not just about data, but it's making sure that  
18 every Michigander understands what we're doing to make  
19 Michigan a better place. Thank you.

20 JENNIFER BATTLE: Thank you. My name is  
21 Jennifer Battle, I'm the director for sustainability at  
22 Michigan State University. Thank you for allowing me to  
23 speak today.

24 Michigan State University, as you know,  
25 is a large public research institution. We have just shy  
Metro Court Reporters, Inc. 248.426.9530



1 of 49,000 students, 11,000 faculty and staff, we have a  
2 large 5,200-acre campus with 500 plus buildings, 27 miles  
3 of roads, and we even have our own power plant that  
4 supplies steam and electricity for most of the campus.  
5 So in essence, we are a small city, much like the other  
6 communities in Michigan. And like the other cities and  
7 communities in Michigan, we also have the issue of the  
8 challenge of energy and thinking about that for the long  
9 term for our organization.

10 Our president also often says that  
11 sustainability is part of our DNA as a land grant  
12 institution, so we believe that we're responsible for  
13 providing economic, environmental and community value for  
14 solving the world's most pressing problems, and energy  
15 and climate change are among the biggest challenges for  
16 this and future generations. So we had to respond to  
17 that, and we created our own energy plan for the campus,  
18 and we set out a bold vision for our campus about being  
19 powered by sustainable resources, by being powered to  
20 renewable energy -- by renewable energy.

21 And the three goals the plan first  
22 include improving the physical environment, so first  
23 looking at lots of opportunities for conservation and  
24 efficiency and fuel switching, because we believe the  
25 most sustainable piece of energy is the one you don't

1        need at all. So conversation is job one.

2                The second is investing in sustainable  
3        energy research and development. Being a large land  
4        grant research institution, we have a lot of resources  
5        available, we have a lot of faculty who are doing work in  
6        these areas and partnering with other companies, and it's  
7        important for us to be developing the technologies that  
8        we think will fuel -- no pun intended -- but will fuel  
9        our transition.

10               And finally, to be a leader, an  
11        educational leader in this area. We have -- again, it's  
12        not only important for us to do these things on our  
13        campus, but it's important for us to share them, to share  
14        solutions for the State to benefit both not only us, but  
15        other communities around the State of Michigan.

16               So with our energy plan, first we are  
17        bold. We want to be bold. We have to paint a big  
18        picture, a big vision for our campus.

19               Second, we were balanced. So we didn't  
20        just look at one factor such as cost or reliability, we  
21        had to look at them all so that we came up with a set of  
22        balanced strategies to move us forward. We looked at  
23        cost, capacity, reliability, environment and health  
24        factors.

25               And finally, the plan is collaborative,  
                 Metro Court Reporters, Inc.    248.426.9530

1 not only in the creation of the plan and doing things  
2 similar to what's happening here by having town hall  
3 meetings and soliciting lot of opinions, but it's  
4 collaborative in the implementation of the plan. So  
5 we're leveraging our research and our operations on  
6 campus and partnerships to test out the new technologies  
7 that we want to implement, but also we believe that that  
8 strengthens the economy. We work with a lot of Michigan  
9 business, these are new sectors for them, it's providing  
10 jobs, and we believe we're strengthening the economy that  
11 way.

12 So when we're, you're looking for advice  
13 about how to move forward with Michigan's energy future,  
14 first, this is an opportunity for this State. We need to  
15 look at this as an opportunity and move forward and take  
16 advantage of this opportunity. In order to do that, we  
17 have to be bold. We can't just look at small, little we  
18 can do this program here or this program there, let's set  
19 a big, bold vision for State, and then let it measured  
20 and balanced so that we can achieve the goals and achieve  
21 the vision.

22 And finally, promoting renewable energy  
23 research and development; that's going to be important, I  
24 think, renewable energy research and the technologies  
25 are, will be one of the things that drives Michigan

1 forward.

2 So Michigan State University, we have  
3 students, faculty, and staff who are leaders, lifesavers  
4 and world changers. And thank you for the opportunity  
5 for us to speak today.

6 REESE SERRA: Good afternoon. My name is  
7 Reese Serra, and I'm here on behalf of 123.Net. I'd like  
8 to thank the Michigan Public Service Commission and the  
9 Snyder administration for taking up this important issue.  
10 Particularly, I'd like to commend the Snyder  
11 administration for its efforts in reducing costs and  
12 creating a better work environment for the State of  
13 Michigan.

14 123.Net is a Southfield-based internet,  
15 telephone and data center provider that's been in  
16 business since 1996. They have offices in Southfield and  
17 Grand Rapids, and unmanned facilities in roughly 50  
18 locations throughout the Upper and Lower Peninsula.  
19 123.Net has a fiberoptic network of roughly 1,600 miles,  
20 and provides services to roughly 30,000 customers  
21 throughout Michigan, including over 5,000 Michigan  
22 businesses. Notable customers include major Michigan  
23 municipalities, both county and local governments, major  
24 public and private Michigan universities and colleges,  
25 many elementary, junior high and high schools,

Metro Court Reporters, Inc. 248.426.9530

1 significant hospital systems, other Michigan internet,  
2 phone and data center providers, professional sports  
3 franchises, including three out of four in metro Detroit,  
4 one of the largest social media companies in the world,  
5 many of you probably have this app on your phone, but  
6 it's one of the greatest means of communication, and many  
7 major manufacturing and high-tech facilities throughout  
8 Michigan.

9           So why are low energy rates important for  
10 123? 123 currently has a focus on providing internet and  
11 telephone connections to businesses and residents like I  
12 just mentioned. We're currently in a transition to  
13 expand our data center business, and at the moment we  
14 spend \$200,000 per month on electricity; we expect that  
15 to grow by roughly four to five times over the next five  
16 years. We're also in contention right now for the State  
17 of Michigan primary data facility, data center facility  
18 in Southfield, and I think we're within a handful of  
19 other providers that can really save the State a lot of  
20 money and hopefully foster growth here in the metro  
21 Detroit area.

22           If electricity rates are not lowered,  
23 future growth in Michigan's telecommunications industry  
24 will not come to the State, it will go to other markets  
25 like California, Chicago, New York, Miami, Houston and

1 Virginia. Additionally, existing Michigan data center  
2 providers will be forced to expand out of state where  
3 power rates are much more affordable.

4 Currently, as you can see with this chart  
5 here, 123 has a complex with two buildings; one of them  
6 is on Choice and pays roughly 5 1/2 cents, the other is  
7 on DTE at the best available rate, which is the D6 rate,  
8 and it pays almost 10 cents. The rate has actually gone  
9 up a little bit because our usage has changed a little.  
10 So that's not right. It's not competitive.

11 Currently, Michigan has competitive  
12 commercial real estate options for data center providers  
13 and affordable rates in place for telephone and bandwidth  
14 options, but the element that's most needed, power, is  
15 not competitive. If competition is not introduced,  
16 123.Net will be forced to seek other states for its  
17 future growth.

18 And this, the interesting part is that  
19 this dialogue that we're having now is not unique. In  
20 the telecommunications industry, roughly 20 years ago,  
21 this same dialogue was occurring then, and AT&T gave a  
22 very similar presentation like DTE did today, and they  
23 said that less competition is needed, more competition  
24 will only hurt the market, and it will transition costs  
25 to the consumer. Well, that wasn't the case. The

1 Michigan Public Service Commission, in a great decision,  
2 decided to open up the market and allow other companies  
3 like 123.Net, which is a competitive local exchange  
4 carrier, to compete. The result is we have lower costs  
5 for telecommunications services, we have a better  
6 product, and more Michigan businesses are hiring because  
7 of the growth that they've received.

8           So what we need now is we need to open up  
9 the market to competition so that we can have lower  
10 costs, a better quality product, and Michigan businesses  
11 can pass that cost on to increased job growth and  
12 investment in their companies. As an alternative -- and  
13 this is something I was thinking about just sitting here,  
14 I hadn't prepared it -- but in some of the other energy  
15 markets, we're able to take advantage of an index price  
16 option; we don't have that currently with DTE or  
17 Consumers -- we have a facility in Grand Rapids -- and I  
18 think if the utilities would come out with a new tariff  
19 rate where we could avail ourself to the index, this  
20 would increase our savings across the board. Thank you.

21           PAUL BECK: Good afternoon, ladies and  
22 gentlemen. My name is Paul Beck, and I represent myself.

23           Myself, I have a place in Huron County  
24 where the windmills are fast and furious, or slow and  
25 furious. The windmill costs are pitting the residents

1       against DTE and other manufacturers that want to put the  
2       windmills up. Friends and neighbors that used to talk to  
3       each other are no longer talking to each other because of  
4       the windmill issue. It's the money versus the people  
5       that are getting the money and people that don't get the  
6       money, number one.

7               And number two, to be successful in the  
8       windmill business, you have to have batteries to store  
9       the energy. As of today, there is no such battery  
10      available to store these energies. We can not depend on  
11      the wind for any type of energy progress.

12             I hate to say the word nuclear, but  
13      nuclear is very cost effective, very efficient, and  
14      creates jobs, meaningful jobs that are long lasting. I  
15      was talking to a DTE manager, and he told me that it  
16      takes anywhere from 8 to 12 years to put a nuclear power  
17      plant on line, and jobs that will go from, anywhere from  
18      1,800 to 3,000 jobs, good paying jobs, and then after  
19      it's already built, for the economy in that area, there  
20      will be 400 to 500 jobs, meaningful jobs, that filter  
21      down into the community.

22             Competition, which has been talked about  
23      all day today, is very important to the energy program.  
24      We need more competition. DTE and Consumers have a  
25      monopoly on it, we need more competition.



1                   And that's all I have to say. Thank you  
2                   for your time.

3                   STEVE BAKKAL: Thank you. Again, I  
4                   remind everybody to please stay within the three minutes.  
5                   I'd like to get as many as possible.

6                   Next four speakers are Wible Heymach,  
7                   Josh Barclay, Mike Handley, and Virginia Shannon, if you  
8                   could all come up to the front, and Wible, please come up  
9                   to the stage.

10                  Also, if you have any prepared remarks,  
11                  please leave those behind, they'll greatly help the court  
12                  reporter. Thank you.

13                  WIBLE HEYMACH: Hello. And thank you so  
14                  much for having me. I now realize there's different --

15                  I work for an organization called Mom's  
16                  Clean Air Force, we're a children's health organization,  
17                  we have about 130,000 members nationally, about 5,400 in  
18                  Michigan, and we often talk about energy as a question of  
19                  which source to choose or what the difference in prices  
20                  are, and what new technologies work and which don't.

21                  One of the things that we do not talk  
22                  about often enough or in as much detail is the cost to  
23                  our health and to our children's health and what that  
24                  ultimately means to the prices that we're paying.

25                  Coal-fired power plants produce 360,000  
                    Metro Court Reporters, Inc.   248.426.9530

1 tons of hazardous air pollutants every year in the United  
2 States. They're the primary source of toxic emissions  
3 and responsible for almost three-quarters of mercury air  
4 emissions. Small pieces of particulate pollution from  
5 Michigan's nine oldest coal-fired power plants cause  
6 Michiganders 1.5 billion in healthcare costs and damages  
7 every year. That's \$500 for each family of four in  
8 Michigan.

9 Michigan currently ranks fifth in the  
10 nation in premature death, hospital admissions and heart  
11 attacks attributed to coal-fired plant pollution.  
12 Looking closer at those numbers, 180 premature deaths,  
13 333 hospital visits, and 68,000 asthmatic (inaudible),  
14 as well as 72,000 missed school and work days happen each  
15 year in Michigan due to coal plant pollution.

16 The ozone action days last year have been  
17 a record high in Michigan, preventing children,  
18 especially those plagued with asthma, to play outside  
19 while they were in effect. As mentioned before, over  
20 230,000 children and 700,000 adults suffer from asthma in  
21 Michigan, which costs us 394 million in medical costs per  
22 year. That's not just the treatment, but also going to  
23 the hospital, getting treatment in schools, again,  
24 missing school for parents and such.

25 (Inaudible) has been identified as one of  
Metro Court Reporters, Inc. 248.426.9530

1 the largest sources asthma, especially in children whose  
2 respiratory systems are much more vulnerable than adults.  
3 Less coal-fired power plants emissions will also lower  
4 the risk of lung disease and heart attacks.

5 We've had 530 statewide and water body  
6 specific fish advisories in Michigan due to mercury  
7 contamination. Mercury is a poisonous neurotoxin that  
8 harms the developing brains and hearts and lungs of  
9 fetuses, babies and toddlers. As many of the women in  
10 the audience know, women are told during the term of  
11 their pregnancy that they should stay away from fish  
12 because fish often has mercury levels that are dangerous  
13 to the fetus. By ensuring that we have a larger  
14 percentage of our energy come from renewable sources, our  
15 Great Lakes will have less mercury pollution from  
16 coal-fired power plants.

17 We have looked at the hidden costs of  
18 coal to our health and our children's health. We believe  
19 extending our renewable portfolio is the answer to those  
20 health issues. Michigan has been (inaudible) industrial  
21 leader, we should continue this tradition; extending the  
22 renewable energy portfolio will enable us to do so.

23 My time is up. Thank you so much for  
24 having us.

25 JOSH BARCLAY: Hi there. My name is Josh  
Metro Court Reporters, Inc. 248.426.9530

1       Barclay. I am a teacher at West Bloomfield High School  
2       and I am director of our West Bloomfield Initiative for  
3       Renewable Energy. You can find my entire presentation at  
4       [wireWB.org/MIenergy.pdf](http://wireWB.org/MIenergy.pdf).

5               I'm here to talk about net metering and  
6       what has succeeded for our State. Net metering is a  
7       system by which the electric company allows the  
8       customer's meter to actually run backwards if the  
9       electricity the customer generates is more than they are  
10      consuming. It's been described as providing the most  
11      significant boost of any policy tool at any level of  
12      government, to decentralize and green America's energy  
13      sources. And why we want to do this, especially in  
14      Michigan, is because we've got an amazing, an amazing  
15      renewable energy resource here.

16             This slide right here shows Michigan's  
17      electrical demand, the bar, blue bars; the green line is  
18      our, was a sample of one year of wind speeds, average  
19      wind speeds at Saginaw Airport; and the red line  
20      represents PV radiation right here in Detroit, and you  
21      can see that the profile exactly matches our demand.  
22      Where the wind fails in the middle of the year in June  
23      and July and August, that's where solar PV really kicks  
24      in. And I've been challenged to say, well, you're biased  
25      on this because the scale is biased, but really, we have

1 an amazing solar resource. In fact, Michigan during the  
2 critical summer months when PV kicks in has more solar  
3 radiation than Miami, Florida, does. Most people don't  
4 realize this. When PV really matters is during the  
5 summer, and that's when it generates the most, even more  
6 than a solar array would in Miami, Florida.

7 I'm here talk about, briefly about net  
8 metering. It's been wildly successful for the Category  
9 1, under 20 kilowatts. As you can see, the rate of the  
10 number of customers has radically increased for under 20  
11 kilowatts. This is not a mistake. The Category 2, over  
12 20 kilowatts, there has been barely any movement in the  
13 number of people net metering. In fact, this is the --  
14 while the under 20-kilowatt category has grown  
15 exponentially, doubling every year since 2009, over 20  
16 kilowatts has barely been a trickle. There are only 4  
17 customers statewide over 20 kilowatts.

18 Why is this? We must ask this question.  
19 Could it be because of cost? Well, in fact, that can not  
20 be the case. Cost goes down as you have greater  
21 economies of scale. So what could it possibly be? Is  
22 there some magical price point at 20 kilowatts that makes  
23 it impossible? Well, in fact, we have to take a look at  
24 our policy. Michigan's net metering policy is very  
25 progressive, and in fact, we got an A for it with the

1 Freeing the Grid document, and that's because under 20  
2 kilowatts are credited at full retail rates, while over  
3 20 kilowatts shall not have net metering credits applied  
4 to distribution charges. That is a major disincentive,  
5 and I think we really need to take another look at our  
6 policy so we can take advantage of our amazing renewable  
7 energy resource here in Michigan. Thank you.

8 MIKE HANDLEY: Good afternoon. My name  
9 is Mike Handley, and I'm a member of the Communications  
10 Workers of America, or CWA for short.

11 CWA is the largest telecommunications  
12 union in the world, representing over 700,000 men and  
13 women in both private and public sector.

14 I stand here today because I believe that  
15 investments in renewable energy are important ways to  
16 create jobs and grow the local economy. Continuing these  
17 investments are key to creating the fair and safe job  
18 opportunities that all Americans deserve.

19 I'm here to respond to the question:  
20 What are the related costs and benefits (regarding  
21 affordability, reliability, and the environment) of a  
22 range of possible energy efficiency standards, including  
23 maintaining our current standard, and increasing it to  
24 various levels?

25 Michigan's current renewable standard is  
Metro Court Reporters, Inc. 248.426.9530

1 helping to grow renewable energy capacity.

2 The benefit of the existing standard is  
3 that it is already working to reduce pollution and give  
4 Michigan cleaner and healthier air and water, protect our  
5 Great Lakes and benefit public health.

6 One of the many benefits of the existing  
7 standard is that it's already created thousands of good  
8 job here in Michigan.

9 According to the Michigan Public Service  
10 Commission, Michigan's existing renewable energy standard  
11 has resulted in \$1.79 billion in investment through 2012.

12 Renewable energy investments in the wind  
13 and solar industries, for example, are off to a good  
14 start cross the State.

15 Apart from the 4,000 to 5,000 jobs that  
16 exist in Michigan's wind industry, approximately \$7  
17 million in annual property tax payments goes to wind  
18 project owners and annual land lease payments total over  
19 \$1 million.

20 The economic benefits of the existing  
21 renewable energy standard are significant. On average,  
22 each clean economy job in Michigan produces \$26,589 in  
23 exports, which ranks it 13th on this measure.

24 The estimated median wage in Michigan's  
25 clean economy is \$40,558. This compares to \$38,024 for  
Metro Court Reporters, Inc. 248.426.9530

1 all jobs in Michigan.

2 According to the American Wind Energy  
3 Association, generating wind power creates no emissions  
4 and uses virtually no water.

5 The wind power installed in Michigan will  
6 avoid 930,000 metric tons of carbon dioxide annually.

7 To compete against the world in clean  
8 technologies and ensure we leave future generations a  
9 better environment, we need to start now.

10 We need to fight for a better future for  
11 our children and grandchildren, and that means investing  
12 in renewable sources of energy. We can create new jobs  
13 with good wages and benefits, bring back jobs from  
14 overseas, and secure our current jobs, all while  
15 protecting our environment and reducing our dependence on  
16 foreign oil.

17 Our leaders need to show leadership on  
18 this. We can and we will continue to create the jobs of  
19 the future in cleaner, more efficient technologies.

20 Thank you.

21 VIRGINIA SHANNON: Hey, everyone. My  
22 name is Virginia Shannon, and I'm the state associate  
23 with Environment Michigan. We are a statewide  
24 citizen-based environmental advocacy organization, and we  
25 work to protect our air and our water and our open



spaces.

As we all know, Michigan is known for our Great Lakes, and the importance of the Great Lakes and our waterways really can not be overstated. It's the life blood of our State and vital for our economy and our livelihood, as well as our drinking water and the health of our ecosystems. And the gas and oil industry is threatening Michigan's most precious resource by injecting millions of gallons of fresh water mixed with toxic chemicals into the ground for fracking. And really there's just too much at stake with our waterways and the Great Lakes to invest in this risky fracking. So instead of putting our water and our State at risk, we need to invest in clean energy and energy efficiency.

It's really no surprise that wind power is good for our environment; but a new report we released this fall called Wind Power for a Cleaner America for the first time quantified the global warming pollution avoided and the environmental and public health benefits that Michiganders can see with even more wind power.

Our current power generation from wind energy in Michigan displaces as much global warming pollution as taking 48,000 cars off the road each year. And if wind development continues at this pace comparable to the recent years through 2016, Michigan would reduce

1 global warming pollution by as much as taking an  
2 additional 169,000 cars off the road. More wind power  
3 will also help reduce harmful air pollution that  
4 threatens our health.

5 Natural gas and coal-fired power plants  
6 produce several wind pollutants -- I mean air pollutants  
7 that put the Michiganders' children and adults with  
8 asthma at risk for attacks and health problems.

9 Additionally, the reality is we have a  
10 vast untapped solar resource, and we get more sunlight  
11 than Germany, which is the world's leader in solar power.  
12 And as solar continues to get cheaper with the cost of  
13 panels dropping by 75 percent since 2008, we are at a  
14 great position in Michigan to benefit from this growth.  
15 And solar employment is also expected to grow nationwide  
16 by 17.2 in 2013, and to add nearly 20,000 new solar  
17 workers.

18 So for Michigan to continue to reap the  
19 benefits for our environment and our economy from  
20 investing in renewable energy like solar and wind power,  
21 we must invest wisely in a future with cleaner air and  
22 smarter use of our water resources.

23 Environment Michigan and myself urge  
24 Governor Snyder to put Michiganders first and invest in  
25 these clean energy resources because our clean air, water

1 and children's futures depend on it.

2 STEVE BAKKAL: Our next four speakers are  
3 James Harrison, Amanda Godward, Bill Ross, and Steve  
4 Toeppner, if you guys can come up to the front, and James  
5 come up to the podium.

6 JAMES HARRISON: Good afternoon, folks.  
7 Commissioner Quackenbush, Director Bakkal. My name is  
8 James Harrison, I'm a national representative for the  
9 Utility Workers Union of America. I focus on Region 4,  
10 which includes Michigan.

11 The UWA's roughly 50,000 members work in  
12 the electric, gas and water industries across this  
13 nation. In Michigan, we have roughly 9,000 members in  
14 local unions, the vast majority of whom are employed in  
15 the energy industry. Utility employers for whom our  
16 members work are Alpena Power Company, Bay City Light and  
17 Power, Cherryland Electric, Consumers Energy Company,  
18 City of Croswell Public Lighting, The Detroit Edison  
19 Company, Grand Haven Light and Power, Midland Cogen  
20 Venture, Traverse City Light and Power, Utility Lines  
21 Construction Company, the contract firm that operates and  
22 maintains the International Transmission Company's  
23 infrastructure, and Zeeland Power and Light.

24 Collectively, these highly-skilled women and men work  
25 24/7 in generation, distribution, transmission, field

1 service, customer service, design and planning to ensure  
2 that Michigan's consumers receive safe and reliable  
3 energy to power their homes, their businesses, and their  
4 communities.

5 We commend the initiation of this  
6 proceeding, and we share the State's interest in  
7 identifying data needed to make sound choices regarding  
8 Michigan's energy future. UWA is very familiar with  
9 developing Michigan's energy policy. We played a role in  
10 helping to develop and pass both 2000 PA 141 and PA 295  
11 energy laws. And as an aid to your efforts, we have  
12 begun, have begun, but not yet completed, compiling what  
13 we believe will be relevant and helpful information. In  
14 part, this data comes from a highly reliable source, our  
15 Michigan members. They have daily, first-hand experience  
16 in operating and maintaining the State's essential  
17 utility infrastructure.

18 The Union's plan is to submit this  
19 information to you in the coming weeks, and I will offer  
20 some brief comments today.

21 Several of the questions that the energy  
22 office has identified for examination address service  
23 reliability. We think this is appropriate. From the  
24 perspective of the union, ensuring reliable and safe  
25 service is our members' top priority. Michigan

1 ratepayers demand and deserve nothing less.

2 A key question is how to ensure that  
3 Michigan's utilities continue to provide highly reliable  
4 service, regardless of whether the sun is shining, the  
5 winds are blowing, or snow is falling. From our  
6 perspective, maintaining service reliability depends on  
7 how well you deal with utility infrastructure concerns.  
8 The State must ensure that the physical systems operated  
9 by the Michigan utilities are well maintained. Our  
10 members work with an aging and deteriorating utility  
11 infrastructure, the consequence of years of inadequate  
12 maintenance and negligent. Michigan's energy future  
13 requires utility infrastructure that is well maintained  
14 and replaced promptly when necessary.

15 Along with the properly maintained  
16 physical infrastructure, the State's utilities must do  
17 the first top job of maintaining a human infrastructure.  
18 A core component of reliable service and sufficiently  
19 well-trained utility workforce. Absent that workforce,  
20 the physical systems will not perform as required.

21 A fundamental question the energy office  
22 has identified to be addressed in this proceeding is  
23 "What information does energy policymakers need to  
24 consider in order to make good energy decisions?" As  
25 maintaining reliability is a top priority objective, it

1 is essential for the PSC to determine whether all the  
2 State's regulated utilities are adequately staffed and  
3 trained with experienced personnel, and if not, what can  
4 be done to remedy the situation. Michigan's utilities  
5 will be unable to provide safe, reliable service unless  
6 they are both adequately staffed today and undertaking  
7 efforts to ensure that they will be adequately staffed in  
8 the future.

9 We suggest that the PSC review annual  
10 utility staffing levels since the advent of deregulation.  
11 Based on first-hand experience, we know that deregulation  
12 has led to staffing cuts, whether through layoff or  
13 through attrition. If the numbers of skilled workers is  
14 dropping, while the number of consumers and the demands  
15 they place on the utility infrastructure are increasing,  
16 the ability of an unmanned workforce or undermanned  
17 workforce to continue to provide reliable service will be  
18 at risk.

19 In addition, given the concerns about the  
20 graying of the utility workforce, the Commission needs  
21 assurances that the State's utilities are engaging in  
22 forward-looking human resource planning. Concerns about  
23 America's aging utility workforce are well known.

24 Indeed, as recently as last week, the National Academy of  
25 Sciences issued a report warning about the looming

workforce shortages in the energy industry. Nationally, as of 2010, the average age of an electric or natural gas utility worker was 46.1 years old. By contrast, the Bureau of Labor Statistics has determined that as of 2011, the median age of a worker was 42 years old. By way of example, in 2011 staffing review data at one of the larger major Michigan utilities, the union workforce in excess of 2,000 people, 87 percent of the employees are over 40 years old, while an astounding 50 percent are over 55, and 13 are 60 and older.

In 2011, the Center for Energy Workforce Development, a national group of utility companies, their trade associations, and unions, including UWA, predicted that by 2015, a staggering 36 percent of the electric utility and natural gas industry workforce may need to be replaced due to attrition or retirement. It is equally important to see that this is not a problem that lends itself to a quick fix. Inadequate staffing levels in electric and gas utilities is not something that can be treated to a quick fix.

We note that examining utility levels is well in line with the actions taken elsewhere. The States of Maryland and New Jersey are currently undertaking utility staffing reviews. Those examinations were initiated following the severe Derecho storm, which

1 hit Maryland last June, and Hurricane Sandy, which  
2 devastated the northeast in October. We urge that  
3 Michigan not wait for a weather-related disaster and  
4 subsequent public outcry over long outages to determine  
5 if its utilities are adequately staffed. Michigan should  
6 learn from, and not repeat, the experience of others and  
7 get ahead of the curve on the important question of  
8 utility staffing in relation to service reliability.

9 Thank you for your time today. Again,  
10 our plan is to be able in a few short weeks to assist you  
11 by providing detailed information on the status of  
12 Michigan's utility workforce.

13 AMANDA GODWARD: O.K. Well, thank you,  
14 everyone, for allowing me to speak today. Thank you  
15 Commissioner Quackenbush and Director Bakka. My name is  
16 Amanda Godward, I'm the owner of Ecotelligent Homes. We  
17 are an energy auditing and efficiency upgrade company  
18 that I started in 2009, and have been continuing to grow  
19 due to the increase in demand from Michiganders for a  
20 comfortable and energy-efficient lifestyle. My company  
21 is also a member of the Detroit Area Green Sector Skills  
22 Alliance.

23 Today I'm go to be talking about a  
24 response to energy efficiency Question No. 12. So  
25 Question No. 12 asks: Has Michigan and have other



1 jurisdictions evaluated energy efficiency programs based  
2 upon first-year savings and/or on lifecycle savings? And  
3 the answer, first part of the answer is that Michigan  
4 currently evaluates on single-year or first-year savings.  
5 A second part to that answer is that federal energy  
6 efficiency projects, among others, are evaluated based on  
7 a lifecycle savings, and as defined as the sum of present  
8 value of investment costs, capitol costs, insulation  
9 costs, energy costs, operating costs, maintenance costs,  
10 and disposal costs over the lifetime of the project,  
11 product or measure.

12 This is a tool provided by Energy Star  
13 for estimating energy efficiency savings or energy  
14 savings both on a single-year or first-year basis, as  
15 well as a lifecycle basis. Into this calculator I input  
16 to replace a residential furnace that's approximately 15  
17 to 20 years old here in metro Detroit and upgrade it to  
18 an Energy Star model. With the single-year savings, you  
19 can see that is a projected savings of only \$244, that's  
20 what our programs are currently able to claim. With  
21 lifecycle cost analysis, you would be able to claim  
22 \$17,000 worth of savings through the life of that  
23 measure.

24 The benefits of lifecycle analysis  
25 include that the State of Michigan can quantify the true

1 energy savings potential and value of energy optimization  
2 programs like you referenced in your introduction this  
3 afternoon by citing our current program achievements  
4 through the lifecycle analysis. It's a better whole  
5 picture. Utility companies can then advise energy  
6 efficiency improvements to meet energy optimization goals  
7 by using the most cost-effective way. By quantifying the  
8 lifecycle savings, it provides accurate cost analysis for  
9 future program development. Customers can understand the  
10 full picture of all the cost benefits of energy  
11 efficiency improvements. Lifecycle cost analysis lines  
12 up with generally accepted financial guidelines, that's  
13 why we use it to present energy efficiency projects to  
14 both our residential and commercial customers today. And  
15 as demonstrated, using lifecycle basis illustrates more  
16 cost savings than just a first-year savings, therefore,  
17 energy optimization targets should be adjusted according  
18 to to maintain current levels, if not increased to  
19 promote future demand.

20 Thank you.

21 BILL ROSS: Good afternoon. My name is  
22 Bill Ross, president of Booker T. Washington Business  
23 Association. BTWBA is one of oldest African-American  
24 chambers in the country.

25 I would like to start off today by  
Metro Court Reporters, Inc. 248.426.9530

1 offering a quote, and it says: You can't escape the  
2 responsibility of tomorrow by evading it today. Abraham  
3 Lincoln. Therefore, I would like to thank the Governor,  
4 the Chairman and the Director for honoring that quote by  
5 Abraham Lincoln.

6 First I'd like to say that, why I support  
7 the Governor's approach to addressing this important  
8 issue. From my perspective, the current environment for  
9 energy in Michigan, the role electric power plays in the  
10 success of our members suggests that the current law is  
11 working, based on the fact that our economy is growing  
12 and lights and energy are available to support this  
13 growth. So I ask the question, why raise the 10-percent  
14 cap and move to a deregulated market that risks the  
15 100-plus year history of providing power when we need it?

16 In 2008, a bipartisan legislature passed  
17 energy laws as a suggestion that the State's largest  
18 investment in renewable energy came about. The Governor  
19 has taken that model as his blueprint in the area of  
20 energy initiatives, which means his position ensures that  
21 Michigan will have a successful energy policy that  
22 focuses on what I call the RAP, and it's been referred to  
23 by several speakers today. RAP stands for reliability,  
24 affordability, and protecting the environment. And more  
25 importantly, the current model provides opportunities for

1 businesses to participate in the State's recovery.

2 Support and investment in programs like  
3 Pure Michigan Business Connect Initiatives, as well as  
4 with its favorable business environment, Michigan-based  
5 small, mid-size and large companies can create more jobs  
6 because of demand for their goods and services.

7 How do I support that statement? Let's  
8 take a look back over the last three years by what DTE  
9 Energy did, has spent with the suppliers in Michigan. In  
10 2010, it spent 475 million; in 2011, it spent 598  
11 million; in 2012, it spent 826 million. That's a  
12 42-percent increase in the dollars spent with suppliers  
13 in Michigan from 2010 to 2012. That tells me that DTE's  
14 demand for goods and services has increased because of a  
15 favorable business environment, thereby increasing its  
16 overall supply chain expenditures to 1.9 billion for that  
17 3-year period. And better yet, that expenditure made way  
18 for the creation of over 7,000 full-time jobs in Michigan  
19 last year. And I suggest to you, ladies and gentlemen,  
20 that there are many recipients of those 7,000 jobs for  
21 the mothers, the fathers, the brothers and sisters, for  
22 aunts, for uncles, the nieces and the nephews and  
23 children of many of us in this room and others that we  
24 know throughout southeastern Michigan.

25 Nevertheless, the question remains, can  
Metro Court Reporters, Inc. 248.426.9530

1 the current energy regulation model be improved? Without  
2 a doubt, the answer is yes. So let's see, ladies and  
3 gentlemen, what that reform has that's important.  
4 Because it gives us, the customer, an opportunity to  
5 participate: 1, in a meaningful discussion around the  
6 issue; 2, make known our believable and reliable and  
7 quality services at a reasonable price is addressed; and  
8 3rd, which is very important, these types of forums can  
9 help showcase how current efforts have helped businesses  
10 and residents become more efficient in the use of energy,  
11 which support programs designed to directly assist them  
12 in the management of their energy usage.

13 For example, local utility provider for  
14 me and many of our members throughout Michigan is DTE  
15 Energy. It has invested more than 2 billion in renewable  
16 energy, which includes wind and solar, as a result of a  
17 2008 energy policy. Further, DTE plans to spend more  
18 than 600 million on environmental upgrades based on the  
19 current Michigan policy. Therefore, we need to look that  
20 current system has been successful before suggesting  
21 changes, and then ask the question, how can we support  
22 the current energy model while looking for ways to  
23 improve it, not just for the sake of change? That's the  
24 kind of mindset that can assist us in having fruitful and  
25 constructive discussions and help lead to the best energy

1 policy possible for the citizens and the businesses of  
2 Michigan.

3 In closing, I would like to say, with a  
4 stable and predictable regulatory infrastructure,  
5 utilities such as DTE Energy can continue providing safe  
6 and reliable electricity within the State, which will  
7 lead to greater capital investment, therefore allowing  
8 providers such as DTE Energy an opportunity to generate  
9 additional job growth and offer more affordable rates to  
10 its commercial and residential customers. Thank you.

11 STEVE TOEPPNER: Chairman, Director,  
12 thank you for the opportunity to speak today. Hello,  
13 everybody. My name is Steve Toepfner, I am the general  
14 manager of WellHome, part of Masco Contractor Services in  
15 Taylor-based Masco Corporation.

16 At WellHome, we are a home performance  
17 contractor; like those that have come before me, Amanda  
18 and Clayton, we do energy assessments and home  
19 improvements that drive energy efficiency to primarily  
20 single-family homes here in Michigan, and I'll stand  
21 before you as an advocate of energy efficiency programs,  
22 those that we believe work well throughout the State of  
23 Michigan. Masco has continued to invest in us since we  
24 were founded in 2009. We've grown every year, started  
25 with 4 employees, we added another location in Grand

1 Rapids, and currently employ 16 here in the State of  
2 Michigan, again driving energy efficiency for  
3 single-family homeowners throughout the State.

4 What I came here to talk today about is a  
5 few of the questions that Governor Snyder had put before  
6 us, specifically given our current technology, how much  
7 energy efficiency is technically feasible in Michigan,  
8 and what's the remaining cost-effective energy potential  
9 in the State? So I'm going to talk about a study that we  
10 recently did of 106 homes, granted a small subset, but a  
11 very clear indication of the opportunity that exists out  
12 here.

13 As a pure home performance contractor, we  
14 do see tremendous remaining residential efficiency  
15 opportunity. In more than 9 out of 10 homes that we go  
16 into each day doing our energy assessments, the data  
17 supports the observation that the potential is greater  
18 than 20 percent in energy savings in every home we go  
19 into, and again, that's 9 out of 10 that we visit. Our  
20 work with the Better Buildings program for Michigan, the  
21 Michigan Saves energy loan program, the EO programs, and  
22 then the recent utility study that I mentioned a moment  
23 ago have informed us of this.

24 In that recent utility study, again, it's  
25 106 homes, the average age of those homes were 1965, or

1 48 years. Average utility bills was \$2,417. In the  
2 improvements that we made, which included insulation, air  
3 sealing, furnace upgrades, air conditioner upgrades,  
4 lighting upgrades, windows, essentially every major  
5 traditional technology energy efficiency improvement that  
6 could be installed, we achieved a 20.7-percent energy  
7 savings, of which 23.5 percent came on the gas side, 8.4  
8 percent on the electric side. Interestingly as well, 26  
9 of those job were financed through Michigan Saves at a  
10 \$7,768 financed amount, so clearly there's a strong  
11 contribution from the consumer side that helps to achieve  
12 that 3.51 balance of savings.

13           Some of the other important points to  
14 make, we had -- we still see very clear opportunity. As  
15 I said, in 92 percent of the homes we visited, they  
16 needed air sealing improvements, and 88 percent in turn  
17 needed insulation improvements; 61 percent needed the  
18 HVAC, so tremendous opportunities out there.

19           Of the total program energy savings, 88  
20 percent of them came from air sealing and insulation and  
21 furnace upgrades, so those three specific measures drive  
22 the majority of opportunity. Said another way, 2/3 or 62  
23 percent came from air sealing and insulation, and 26  
24 percent came from HVAC, specifically furnaces.

25           Lastly, in conclusion, we do recognize



1 the need for energy efficiency improvements in our  
2 housing stock, it's critically important to us, and the  
3 opportunity exists that greater than 20 percent per home,  
4 existing technology, not magic, it's traditional  
5 technology that's existed for years. Customers are more  
6 inclined to participate in an energy efficiency program  
7 when there's a trusted name promoting it, like public  
8 utilities, like Better Buildings for Michigan, like  
9 regional and state energy offices and Michigan Saves.  
10 Next, consumer incentives and trusted source marketing  
11 will continue to be necessary to drive action.

12 I'm thankful to be able to see today  
13 several studies that show energy efficiency does make  
14 tremendous sense and tends to be a terrific investment.  
15 That said, we still do need incentives and trusted source  
16 marketing to drive it.

17 Deep energy savings can be achieved  
18 through contractor-driven programs, which I'm a huge  
19 advocate for, putting the incentive in the hands of those  
20 that it benefits most is critical. As a contractor, I  
21 want to see programs that I can drive and benefit from.  
22 And again, as I mentioned before, consumer dollars are an  
23 important piece of this as well to get the economy  
24 moving, not just for companies like me, but for others  
25 that manufacture equipment.

1 Contractors like WellHome appreciate and  
2 want energy efficiency programs like those run by the  
3 utilities and Better Buildings for Michigan to aid us in  
4 growing our business. Thank you very much.

5 STEVE BAKKAL: The next four speakers are  
6 David Winowiecki -- I hope I pronounced that correctly --  
7 Sean Brady, Victoria Pebbles, and Ed McArdle, if could  
8 you please come up. Also, for the people that are out in  
9 the lobby, we do have some empty seats in the auditorium,  
10 so feel free to come in.

11 DAVID WINOWIECKI: Good afternoon,  
12 Chairman Quackenbush and Director Bakkal. My name is  
13 David Winowiecki, I am the manager of Property Management  
14 for Art Van Furniture. I'm responsible for the  
15 infrastructures, the grounds, the mechanical operations  
16 for more than 70 Art Van Furniture stores, Art Van Pure  
17 Sleep and Mattress World stores across Michigan, and now  
18 we're entering into Indiana, Illinois and Ohio.

19 I'm thankful to be here to share our  
20 views about the energy policy here in Michigan, and I'm  
21 pleased that the theme for these forums is Ready  
22 Michigan to Make Good Energy Decisions.

23 It's important to point out I'm also  
24 responsible for utility services for all 70 plus  
25 locations. My annual utility budget is \$5.2 million and

1 my personal goal is to cut our utility expenses in half  
2 over time. As business owners and responsible citizens,  
3 we need make good energy decisions in order to achieve  
4 that goal. And any decisions that the Michigan Public  
5 Service Commission and the Governor and the legislature  
6 make about Michigan's energy policies will also affect  
7 our ability to meet those ambitious goals.

8 Having said that our goal is to cut  
9 utility expenses in half, you'd think that I'd be here to  
10 today urging you to provide greater access to deregulated  
11 rates.

12 That's not our position.

13 I have alternative electricity suppliers  
14 calling me at what seems like every day of the week.  
15 They're all saying that they can beat the regulated rates  
16 offered by DTE Energy and Consumers Energy. Their offers  
17 all seem to be in the neighborhood of a penny or less per  
18 kilowatt hour than our regulated rates.

19 If our decision to purchase were solely  
20 based on price, our position might be different. It's  
21 pretty clear that the alternative suppliers are looking  
22 to sell me energy and nothing more.

23 That's a far cry from the relationship  
24 that I have with our account manager at DTE, Gary  
25 Matthes. He's continually reviewing electricity usage in

1 our stores in the DTE service territory, he's always  
2 looking out for us and helping to manage the usage and to  
3 lower our bills by ensuring that we're on the most  
4 appropriate rate plan, as well as providing advice on the  
5 energy optimization programs.

6 Contrast that with the typical sales  
7 pitch from a nonutility electric marketer, which I'll say  
8 as: Hey, I can always sell you energy as a cheaper rate.

9 Our partnership with DTE Energy on energy  
10 efficiency efforts has already helped us reduce our  
11 electricity usage by more than 20 percent in less than  
12 two years, or in utility terms, that's more than 41,000  
13 kilowatt hours per day. We've installed energy  
14 management systems, we've replaced with LED over 40,000  
15 incandescent lamps, and we're also installing motion  
16 sensors.

17 We'll be focusing on natural gas usage  
18 next. We're in the process of specifying new HVAC units  
19 to garner greater energy efficiency, but that will be a  
20 longer-term project.

21 Right now we're doing HVAC tune-ups to  
22 make sure that we're getting top-notch performance from  
23 our existing equipment. We're also doing things like  
24 replacing our automatic doors.

25 If you think about a manual door, they're  
Metro Court Reporters, Inc. 248.426.9530

1 not open for nearly as long as an automatic door. By  
2 switching to manual doors, we're avoiding energy use  
3 associated with operating the automatic doors, and we're  
4 also avoiding filling our atriums with hot or cold air,  
5 depending on the season, which forces our heating and  
6 cooling equipment to work a lot harder than needed.

7 These are examples of good energy  
8 decisions.

9 They are the product of a real  
10 partnership with my account manager and our Michigan  
11 utility company, companies, and kind of a holistic view  
12 encouraged by the Michigan Energy Optimization  
13 Initiative.

14 We feel that that positive examples  
15 should be encouraged, explored and expanded by any change  
16 to Michigan's energy policies moving forward.

17 Thank you for the opportunity to speak  
18 with you this afternoon.

19 SEAN BRADY: Wow, it's bright up here.  
20 How do I get this? Good afternoon, Chairman and  
21 Director. My name is Sean Brady, I'm a regional policy  
22 manager for Wind on the Wires. Wind on the Wires is a  
23 not-for-profit organization that addresses wind energy  
24 issues here in the Midwest ISO.

25 What I want to talk to you today about is  
Metro Court Reporters, Inc. 248.426.9530

1 the affordability of large-scale wind energy here in  
2 Michigan. I want to make two points. One, it's  
3 affordable now; and second, large-scale wind could be  
4 affordable, help make electricity rates affordable in  
5 Michigan over the long term.

6 So addressing the first point, this is  
7 kind of cuing off of a point that Chairman Quackenbush  
8 made earlier today. The four more recent contracts  
9 entered into for wind energy have ranged between  
10 approximately \$48 -- between \$52 and about \$64, which is  
11 comparable to the weighted overall cost of power here in  
12 Michigan. So it's already currently comparable to your  
13 energy costs here in Michigan.

14 The second point -- I'll leave these  
15 slides with you, but I'm going to skip down since we only  
16 have three minutes. I want to take a look at this slide.  
17 This slide provides a forward look of natural gas prices  
18 as prepared by the United States Energy Information  
19 Administration. They prepare annual outlooks. And this  
20 slide shows their forecasted natural gas prices, which I  
21 show primarily in -- what the median prices are shown in  
22 heavy black lines and the gray shows the upper and lower  
23 limits.

24 So if we apply that slide to this slide,  
25 which we also saw from Mr. Scripps earlier today, this

1 shows, the red line shows natural gas prices currently,  
2 and if you add on the potential gray area, what the  
3 potential natural gas prices could be over the next 20  
4 years; and then the blue line is the average wind energy  
5 contract prices over the last two years throughout the  
6 United States, which ranges between \$42 and about \$50.  
7 So all the gray area that's above the blue line is  
8 potential natural gas price that will be above the cost  
9 of energy, of wind energy, and therefore, wind energy  
10 provides a potential hedge over the next 20 years for  
11 that.

12 Moving on to the second slide, or my last  
13 slide, this shows I've added, if we're moving towards a  
14 natural gas environment, we're looking to build new  
15 natural gas plants. So we need to account for what those  
16 gas, costs on those gas plants. The Energy Information  
17 Administration forecasts the levelized cost of natural  
18 gas plants to be about \$64 to \$66 per megawatt hour,  
19 which is also above the cost of current contracts, and  
20 even if you add the production tax credit into -- we lose  
21 the production tax credit, we'll still be somewhat cost  
22 comparable to natural gas, and there's still a large  
23 amount of potential natural gas prices in the gray above  
24 the blue line that that could be hedged.

25 So I see my time is concluded, so I'll

1 just close up by saying large-scale wind energy right now  
2 is cost competitive, and you should be looking at future  
3 cost prices and where the market will be of energy  
4 serving Michigan and accounting for that, and that  
5 large-scale wind prove to be a hedge over the next 20  
6 years. Thank you.

7 VICTORIA PEBBLES: Good afternoon. Thank  
8 you for the opportunity to make brief remarks today. I'm  
9 here today -- my name is Victoria Pebbles, and I'm here  
10 representing a coalition of stakeholders called the Great  
11 Lakes Wind Collaborative. In the interest of full  
12 transparency, I'm employed by an organization called the  
13 Great Lakes Commission, but I'm speaking on behalf of the  
14 Wind Collaborative, which is a project that the  
15 Commission manages.

16 The coalition that is comprised of the  
17 Great Lakes Wind Collaborative represents state, federal,  
18 local, nonprofit, academic, utility, industry interests.  
19 They share a common thread, and that is wind energy  
20 development across the bi-national Great Lakes region,  
21 sustainable wind energy development. So to get together,  
22 they know that there are some challenges, but that they  
23 share a belief that they can be overcome, and that there  
24 are some inherent advantages.

25 All of the Great Lakes states and the two  
Metro Court Reporters, Inc. 248.426.9530



1 provinces have renewable portfolio standards, so the  
2 Great Lakes Wind Collaborative engages in activities to  
3 support smart and sustainable energy policy and  
4 practices.

5 Affordability should consider the price  
6 of the energy source, of course, the fuel. In the case  
7 of wind, the fuel is wind, and that's free, at least for  
8 now, and it's also of limitless supply. Unlike coal or  
9 natural gas, the price of wind will never go up or down  
10 with market cycles. Affordability should also consider  
11 the cost of turning the fuel source into power.  
12 Converting wind into power requires turbines. The cost  
13 of wind turbines has varied in the past decade, but has  
14 declined since 2008, while capacity factors or the  
15 efficiency of wind turbines has gone up. The most recent  
16 contracts by the Public Service Commission in a recent  
17 report showed that the levelized costs of wind energy are  
18 well below those of advanced coal-fired power plants.  
19 Wind in Michigan has become cost competitive with natural  
20 gas, and it may, as the previous speaker alluded to as  
21 well, have the benefits of hedging against the  
22 possibilities of natural gas fluctuations over the long  
23 term. So increasing the share of wind power in Michigan  
24 makes sense from an affordability and cost-effective  
25 standpoint.

1                   On reliability, we know that wind doesn't  
2 blow the same intensity across the same area at all  
3 times, but it's important not to equate variability with  
4 unreliability. They're not the same. Studies have shown  
5 that wind variability can be diminished through  
6 transmission improvements, for example. Efforts like the  
7 North American Electric Reliability Corporation  
8 integrating variable generation test scores, like that  
9 one, are looking at this and trying to improve the  
10 transmission so it can balance the power with renewables.  
11 The Great Lakes Wind Collaborative believes investments  
12 in transmission and improved coordination and  
13 accountability among the regional transmission  
14 organizations can improve electric power system  
15 reliability and balance power to deliver timely, clean,  
16 and renewable energy, including wind.

17                   The wind energy value chain also offers  
18 fewer risks or links in that chain that can be broken, in  
19 contrast to fossil fuels, which must be extracted,  
20 processed and transported. Each of those steps has  
21 risks. We are all familiar with the 2010 Enbridge  
22 incident that leaked more than a million gallons of water  
23 [sic] into the Kalamazoo River, a tributary to the Great  
24 Lakes; and some of you might also have heard of the 2010  
25 natural gas explosion in California in San Bruno which

1 killed eight people.

2 The Great Lakes Wind collaborative  
3 believes in investments in transmission and improved  
4 coordination among RTOs can deliver clean renewable  
5 energy, including wind.

6 On the third theme, no regrets. The vast  
7 majority of power in the Great Lakes is thermal electric  
8 generation, which uses a vast amount of water, more than  
9 24 billion gallons every day, for example, and there are  
10 additional considerations if we doesn't want no regrets;  
11 impingement (inaudible), mercury emissions we heard about  
12 earlier, carbon, and (inaudible) impacts on the ecosystem  
13 from climate change.

14 The nexus between thermo-electric power  
15 generation and water use should be an important  
16 consideration as we move forward developing new energy  
17 policy for the State of Michigan.

18 This current slide has just a quick  
19 overview of the current installed capacity as of mid 2012  
20 across the bi-national Great Lakes region.

21 I was also going to talk about a study of  
22 jobs and economic development impacts was recently done;  
23 it's in my written remarks that I provided to the staff.  
24 So thank you very much for your time.

25 ED McARDLE: Hi, folks. I'm Ed McArdle,  
Metro Court Reporters, Inc. 248.426.9530

1 I'm the conservation chair for the Southeast Michigan  
2 Sierra Club and Michigan Sierra Club. I'm a volunteer,  
3 we have a lot of staff people, we have other volunteers  
4 who would probably like to speak, too. We have 5,000  
5 members in the southeast Michigan area.

6 So I'd like to address the bad stuff, the  
7 extreme energy path that Michigan's going down, and I  
8 think the policymakers, in response to the Question No.  
9 1, need to consider first, the effect on greenhouse gas  
10 emissions. The carbon dioxide load in the atmosphere is  
11 now at 394 parts per million. The Union of Concerned  
12 Scientists says it hasn't been that high in the past  
13 800,000 years. Think about that. I asked scientist at a  
14 talk that was drilling through the ice in Antarctica down  
15 into the ocean sediments, I asked him that question. He  
16 said, oh, 40-45 million years since we've had it that  
17 high, in his estimate. I was shocked. So we have to  
18 consider that, because now we are in uncharted territory  
19 as far as climate goes.

20 Secondly, high priority must be given to  
21 the impacts on the water use for energy production. The  
22 dirty, extreme energy producers, such as coal-fired power  
23 plants, hydrofracking for gas and oil, oil refineries,  
24 nuclear power plants, use huge amounts of water, killing  
25 millions and millions of fish and larvae when they suck

1 it in, plus thermally polluting, and then we're stuck  
2 with the buck end of all this. We're the ones that have  
3 to clean a lot of this up and dispose of it.

4 Michigan is surrounded by the Great  
5 Lakes, and 40 million people rely on the Great Lakes for  
6 drinking water, recreation. I mean, we're the Great  
7 Lakes State more than any other.

8 So also the transportation of raw  
9 material, chance of severe accident or exposure to  
10 routine processes should also be a consideration. As an  
11 example, the 2010 tar sand oil spill in the Kalamazoo  
12 River still isn't cleaned up, may never be. The storage  
13 of waste products and the transportation of waste  
14 products like coal ash, petroleum coke.

15 I'd just like to say something about  
16 Marathon and the petroleum coke piles down by the river  
17 that you can see. We're getting more and more tar sand  
18 oil through that refinery creating pet coke, which is far  
19 more problem intensive than even coal, and Detroit, DTE  
20 has in a permit of 26,000 tons per year that they can  
21 burn as pet coke. So that's going backwards. O.K. And,  
22 you know, when we're bringing tar sand oil into Michigan,  
23 the dirtiest oil in the world, the biggest construction  
24 project in the world, by Enbridge Pipeline, there is a  
25 proposal to bring in more tar sand oil than the Keystone

1 Pipeline. I think this is going backwards. I mean bless  
2 Ford Motor Company for all their energy efficient  
3 vehicles, but that doesn't make up for the three or four  
4 times greenhouse gases emitted by use of tar sand oil.  
5 So we got to stop there.

6 And the environmental justice must also  
7 be considered, because not only are people of color and  
8 the lower income most subjected to the pollution impacts  
9 of dirty energy, but also the increasing costs of dirty  
10 energy.

11 So I would like to address a couple  
12 things that I don't think I can address today too well,  
13 and one is the reliability question. So in one respect,  
14 the expansion of wind, solar and other renewables lessen  
15 the load that, the need for base load power. Everybody's  
16 into base load power, right. O.K. But the wind is  
17 always blowing somewhere, and can easily be dispatched  
18 over the grid. The grid is designed for offline events  
19 when facilities are shut down for routine repairs or  
20 accidents.

21 There's an article in the peer-reviewed  
22 journal Nature which quotes a study in Germany that  
23 little power storage or backup is needed to achieve  
24 40-percent renewable supply. Denmark already has 40  
25 percent without backup. And Michigan, I'd like to remind

1 people, already has a giant battery in the form of  
2 Ludington Pump storage facility, which pumps water from  
3 Lake Michigan up to a reservoir during the night when  
4 demand is low, and then can be released back during peak  
5 demand hours. And a joint project by DTE and Consumers  
6 it's going to be expanded to 2,100 megawatts. O.K.  
7 That's more than the proposed Fermi 3 nuclear plant.

8 By the way, Fermi 3 is predicted by DTE  
9 to cost \$15 billion. So I got to ask you, how many solar  
10 panels, how many wind towers can you get for that 15  
11 billion? And we think it's 20 billion, because they're  
12 not factoring in the expansion of the transmission grid.

13 O.K. I would also like to bring up a  
14 form of energy that is often overlooked because it's not  
15 really sexy like renewables, and that's combined heat and  
16 power, or grade power. Now, I don't have any figures for  
17 Michigan, but I don't think Michigan's that much  
18 different from another industrial state like Ohio.  
19 Renewable Energy Development has done a study on Ohio,  
20 and Ohio has as much potential to produce electricity  
21 (inaudible) to eight nuclear power plants at lower cost  
22 than coal and nuclear and natural gas. O.K. And you  
23 know, we have steel mills, we have paper mills, we have  
24 large (inaudible) where it could be driving turbines. I  
25 know some of this is already being done, but the

1 potential is far underestimated.

2 O.K. One other thing, then I'll -- O.K.  
3 My three minutes is probably up. Sorry.

4 O.K. One other thing. As far as that  
5 energy go was install a construction (inaudible). And  
6 this is very unpopular in other states. In other words,  
7 ratepayers will have to start paying for these large  
8 facilities before they get any electricity from it, and  
9 in the case of nuclear power plants, a good portion of  
10 the ratepayers will be dead by the time they get  
11 electricity from it. So thank you.

12 STEVE BAKKAL: Thank you, all. Our next  
13 four speakers are Julie Lyons Bricker, Scott Viciano,  
14 Anand Gangadharan, and Janet Wright.

15 Also, for the speakers, I've been  
16 requested, please speak into the microphone for the  
17 people in the audience. And for the speakers that are  
18 going to be going over, I'm going to be providing your  
19 e-mail address to the people that won't be having a  
20 chance to speak and who yell at me at the end, so please  
21 stay within your allotted time.

22 JULIE LYONS BRICKER: O.K. Thank you,  
23 Chairman Quackenbush and Director Bakkal, for offering  
24 this chance to speak today. I am Julie Lyons Bricker,  
25 the director of Michigan Interfaith Power and Light. And



1 that organization is a nonprofit aimed at assisting  
2 houses of worship across the State become more energy  
3 efficient, implement renewable technologies, and other  
4 sustainable practices. We are celebrating our tenth year  
5 as we speak this year, and have more than 185  
6 congregational members across the State.

7 Today I'd like to talk a little bit about  
8 a project that we are just now closing out, it was in  
9 partnership with DTE Energy, and it's an energy  
10 efficiency program aimed at houses of worship. So as you  
11 can see on the map, we have 48 congregations in Detroit  
12 proper, and these congregations participated in this  
13 energy efficiency program. They were many denominations.  
14 The building sizes ranged from about 4,000 square feet to  
15 100,000 square feet. Congregations were of many  
16 different ages and different levels of energy efficiency  
17 needs. Another point we'd like to say is that the  
18 congregations who participated were from a number of  
19 different denominations.

20 So back to the project, as can you see,  
21 there were three major pieces to this energy efficiency  
22 project: The energy assessment, the direct install  
23 products, and then a tracking through the portfolio  
24 manager EPA Software System.

25 Unlike some of the other energy

1 efficiency programs we've heard about today, all of these  
2 changes, the energy efficiency measures that we've used  
3 for this program were very basic and inexpensive, so the  
4 payback was relatively quick. You can see some of the  
5 items that we used here.

6 So here is a chart of our data savings  
7 from November of 2011 to November of 2012. We had an  
8 average savings per participant of more than \$2,300. The  
9 cost savings project-wide for this 12-month period was a  
10 little bit more than 11 percent, and the energy usage  
11 index, the EUI percentage savings was close to 6 percent.

12 One of the best things that we have found  
13 throughout this data tracking is that 96 percent of the  
14 project costs were paid back within this first 12-month  
15 period. Also, many of these congregations are using  
16 their energy usage savings to offer more services to the  
17 citizens in need within their faith communities.

18 So a couple of additional outcomes from  
19 our project. We will continue to track the participants'  
20 energy usage throughout this year. Another aspect of the  
21 program is to assist with behavioral changes within these  
22 faith communities. We intend on offering another  
23 portfolio manager training program, and as you can see on  
24 the slide, about 33 percent of the participants have  
25 already done one version of that training.

1                   Because -- and then a second piece is  
2                   because of this Energy Star EPA Portfolio Manager  
3                   tracking that we are doing, six of our participants moved  
4                   forward to apply for the Energy Star Building  
5                   Certificate. And we in fact just learned from the  
6                   director of the EPA Small Businesses and Houses of  
7                   Worship that four of those six have come through  
8                   approved, so we'll be sending out the news to the four  
9                   congregations. And we also learned that Michigan has  
10                  been propelled to first place in terms of the number of  
11                  houses of worship with Energy Star Building Certificates  
12                  in the country. Thank you. And the best thing is we  
13                  still have two in the pipeline that no doubt will come  
14                  through.

15                 O.K. That is a great segue to my request  
16                 to you both and to this process. Michigan is innovative,  
17                 Michigan is strong, Michigan deserves to have a more  
18                 progressive energy efficiency and renewable standards in  
19                 place. There's no reason for Michigan to be behind so  
20                 many other states at this point. So we ask that you  
21                 please defend and strengthen our EE and RE standards.  
22                 Thank you.

23                 ANAND GANGADHARAN: Commissioner  
24                 Quackenbush, Director Bakka, thank you for the  
25                 opportunity to speak. I'm Anand Gangadharan, president  
                  Metro Court Reporters, Inc.   248.426.9530

1 of Novi Energy. We are an entrepreneurial small energy  
2 project development and consulting firm based in Novi,  
3 Michigan, and have been doing business since 2002.

4 We were the developer, construction  
5 manager and partial owner and operator of the Fremont  
6 Community Digester. This is a \$22 million anaerobic  
7 digester project that was built in Fremont. It's  
8 currently being commissioned and operated. The Fremont  
9 digester recycles 100,000 tons per year of organic waste,  
10 and digests it into biogas, which fuels engine generators  
11 to generate three megawatts of base load electricity.  
12 The fuel here is organic waste that would otherwise be  
13 sent to landfills or be land applied to disposal.

14 This plant also produces as byproducts  
15 fertilizer and compost, enough to fertilize approximately  
16 5,000 acres of corn crop annually. There is no other  
17 waste left over from this plant. We don't even have a  
18 waste water connection out of our processor of our plant.

19 We also reduce greenhouse gases, gas  
20 emissions by over 75,000 tons of carbon each year. This  
21 is just about the same value that Mr. George Andraos of  
22 Ford Motor Company talked about in 2012. They reduced  
23 about 74-75,000 tons of carbon. So a single anaerobic  
24 digester plant of ours produces and has that same  
25 environmental impact and footprint -- I didn't know this

1       until today -- as Ford Motor Company.

2               Anaerobic digesters benefit the  
3       environment because they take organic waste that would  
4       otherwise be landfilled and use them to make renewable  
5       electricity. These digesters also recycle livestock  
6       manure that has historically been spread as raw manure on  
7       farm fields. Excessive manure from CAFOs, confined  
8       animal feeding operations, is an active environmental  
9       problem in Michigan today. There are areas such as in  
10      the Michigan thumb where excess nutrients from CAFOs  
11      farming operations have been leaked into ground water,  
12      causing algae blooms and muck along the beaches of  
13      Saginaw Bay. Anaerobic digesters have a role here and  
14      can help alleviate this problem and improve Michigan's  
15      environment.

16             Although anaerobic digesters generate at  
17      a slightly higher cost than a new gas-fired power plant,  
18      they are small generators that provide an environmental  
19      benefit to the State, and are not significant in terms of  
20      the State's total electricity costs. They are a benefit  
21      to the State's environment.

22             Novi Energy estimates Michigan's organic  
23      waste production could support at least 10 more anaerobic  
24      digesters the same size as the Fremont digester around  
25      the State. I'm here today to urge Governor Snyder and

1 the Michigan Public Service Commission to adopt policies  
2 that incentivize the State's electric utilities to  
3 contract more from these anaerobic digesters, not only to  
4 give the State more base load renewable capacity, but  
5 also to help clean up watersheds and improve the  
6 environment.

7 Energy technology diversity is important.  
8 Let's ensure the long-term stability and value to  
9 Michigan and take positions that improve the quality of  
10 life and affordability of our Michigan communities.  
11 Thank you.

12 SCOTT VICIANO: Good afternoon, Chairman  
13 Quackenbush and Director Bakkal, good to see you today.  
14 My name is Scott Viciano, I'm the vice president of sales  
15 and business development at a company called Ventower  
16 Industries. We're happy to be here today and really  
17 trying to present some perspective on a tangible company  
18 doing business in renewables, and more than anything,  
19 representing and embodying the success of PA 295, and  
20 creating jobs, being a catalyst in the community.

21 So I'm just going to give you a quick  
22 summary about what we do. Ventower fabricates, really  
23 gives turnkey solutions for distributed wind and  
24 utility-scale wind turbine towers. The company was  
25 formed in 2008. We began with construction on a

Metro Court Reporters, Inc. 248.426.9530

1 brownfield site within Monroe County, actually at Port of  
2 Monroe, and the site, we kind of walk the walk, talk the  
3 talk by revitalizing a brownfield site. The footprint  
4 worked well for our process, and has turned out to be a  
5 real advantage so far. The overall project investment  
6 that we put into it was about a \$25 million project,  
7 received a lot of support on the State level, community,  
8 private equity as well. So it's so far-so good, turned  
9 out well.

10 Our customer focus is on the OEM, the  
11 original equipment manufacturer, and some of the wind  
12 developers as well, so we call on folks like the GE,  
13 Siemens, and if you're familiar with Wind Vestas, Gold  
14 Wind, et cetera, of the world.

15 Our facility was built and it's purpose  
16 built to fabricate wind towers, and we really have some  
17 of the industry's most technologically advanced welding,  
18 rolling and painting equipment. If you're not familiar  
19 with wind towers, we're building towers up to a hundred  
20 meters in height, not one section only, and let me dispel  
21 that in a hurry, but usually three or four sections in  
22 size, so it's some pretty impressive equipment. Our team  
23 has an extensive operational, engineering and fabrication  
24 experience within the industry, and we've been able to  
25 tap into some of the resources here in the State, of

1 course.

2 I mentioned our location, which is at the  
3 Port of Monroe, which has proven very good for us, been  
4 able to look at water-borne logistics, rail and  
5 interstate as well, we've used all three to deliver  
6 towers.

7 So fast forwarding, our production  
8 started in 2011, we've had six orders from four major  
9 OEMs in the wind world, so to speak, and we completely,  
10 we've delivered four of them already, on time and  
11 successfully. Current jobs we've created, about 57  
12 employees as of today. By the end of August, we look to  
13 have that number to about 80. So business is picking up.  
14 More validation on some of the legislation that's been  
15 put in place and helping support our efforts.

16 We will also have a target -- we'll have  
17 the capacity of two three-section towers per week, and by  
18 2014, we'll be ramped up to 200 towers total per year.  
19 Really exciting stuff.

20 So to kind of fast forward real quick,  
21 our basic perspective and really why I'm here is just  
22 some validation as to PA 295 and the policy and the  
23 certainty it's provided for us to make investment and to  
24 keep growing.

25 Second is the support and the commitment  
Metro Court Reporters, Inc. 248.426.9530



1 that we've seen from the utilities' end of things,  
2 supporting Michigan content, from DTE Energy, Consumers  
3 as well, they've done a really great job of trying to  
4 help make us better. And more importantly, the positive  
5 impact that we've provided on the community; economic  
6 development, job creation, synergy with community  
7 colleges, et cetera. So our hopes is to continue moving  
8 along.

9 Let it -- it's noted that my opinion,  
10 it's worked, the policy, and we look forward to moving  
11 forward with that one. Thanks.

12 STEVE BAKKAL: Thank you. Our next four  
13 speakers are Melody Steel, Fay Beydoun, Al Folker, and  
14 Robert Gordon. Please come up to the front.

15 ROBERT GORDON: Hello, everybody. My  
16 name is Robert Gordon, and I'm also an activist with the  
17 State Sierra Club.

18 I wish I had a white board marker or  
19 something, so you have to bear with me. You might  
20 remember in the campaign on Proposal 3 in 2012, Detroit  
21 Edison spent \$17 million to tell us why grandma and  
22 grandpa can't pay for \$12 billion of investment so we can  
23 get 25 percent of our energy from renewable sources. At  
24 the same time, as Mr. McArdle pointed out, DTE is  
25 planning a \$15 million investment in a nuclear energy

1 facility, which, if completed, would provide 1.54  
2 gigawatts, or about 9 percent of Michigan's energy. I  
3 would much rather pay \$12 billion for 25 percent than  
4 even more for only 9 percent. So it's time to stop this  
5 charade of affordable nuclear power. It will never be  
6 affordable, it never has been affordable. And let's  
7 invest that money instead in truly renewable energy.  
8 Thank you.

9                   FAY BEYDOUN: Good afternoon, chairman  
10 Quackenbush, Director Bakkal. I'm Fay Beydoun, the  
11 executive director of the American Arab Chamber of  
12 Commerce, the largest Arab-America business organization  
13 in the United States, and it is one of Michigan's largest  
14 business organizations, over 1,200 members. I'm  
15 extremely pleased to be able to be here this afternoon to  
16 speak on behalf of the Chamber and tell about our  
17 perspective on the future of Michigan's electricity  
18 industry.

19                   As you may know, Michigan is home to one  
20 of the largest concentrations of Arab-American  
21 communities outside the Middle East, and approximately  
22 550,000 residents. The Arab-American community  
23 contributes about 142,000 jobs, or 5.7 of total  
24 employment in southeast Michigan, amounting to \$8 billion  
25 in total earnings in the area. As a result, Arab-

1 Americans have worked hard and achieved great visibility  
2 and success culturally, economically and politically.  
3 The number of businesses owned and operated by  
4 Arab-Americans, the wide range of community organizations  
5 that we support in our active political participation at  
6 the local, State and federal levels are all testimony to  
7 what we have achieved.

8           The level of achievement is fueled by  
9 energy. First, it is the personal energy invested by  
10 American-Arab business owners, their families and  
11 employees and associates. Second, it is quite literally  
12 the electricity and natural gas provided by Michigan  
13 utilities.

14           Michigan's businesses and families need  
15 reliable, affordable energy. That is beyond dispute.  
16 Any State policy proposal that jeopardizes access to  
17 reliable, affordable electricity should be rejected.

18           As one of the earliest members of the  
19 Michigan Jobs and Energy Coalition, we embrace and  
20 support three fundamental goals for energy policy. The  
21 first is that any further energy policy must provide a  
22 level of certainty to encourage investment in Michigan  
23 power plants and the system to deliver electricity to  
24 Michigan homes and businesses. From our perspective,  
25 Michigan's current set of energy laws has achieved this

1 objective and is enabling companies like DTE Energy and  
2 CMS Energy and others to make significant upgrades to  
3 their facilities and systems.

4 The second policy goal is to enable  
5 Michigan utilities to make Michigan's electricity  
6 generating portfolio cleaner and greener. Michigan is  
7 well on its way to diversifying this portfolio through  
8 the construction of the new wind farms around the State.  
9 In addition, Michigan's current energy policies are  
10 providing families with businesses with ways to get the  
11 most out of the money they spend on electricity and  
12 natural gas service.

13 The third policy goal is to provide a  
14 platform or base so that energy companies can plan for  
15 the long term. I know there has been and continues to be  
16 too much discussion about deregulating Michigan's  
17 electricity industry. From what we've observed and heard  
18 about, deregulation is all about savings over a  
19 relatively short term. What Michigan needs is a focus on  
20 the long term.

21 It is my sincere hope that you and the  
22 Michigan legislators and other policymakers are likewise  
23 guided by the focus on the long-term interests of all of  
24 Michigan's residents, businesses and communities. Thank  
25 you.

1                   STEVE BAKKAL: The next four speakers are  
2 Gary Dillon, Frank Zaski, Lew Banwart, and Sandra  
3 Turner-Handy. Please come up to the stage.

4                   GARY DILLON: Director Bakkal, Chairman  
5 Quackenbush, I'm Gary Dillon from Dillon Energy Services.  
6 We're in St. Clair Shores, Michigan. Currently we are  
7 representing over 125 industrial and commercial end  
8 users.

9                   Everyone here at this forum is interested  
10 in growing the Michigan businesses, and every successful  
11 business has to examine its operating costs constantly,  
12 and two of the biggest costs are natural gas and  
13 electricity. I have worked with companies in Michigan  
14 for the last 27 years to reduce their natural gas costs  
15 through the deregulated program that we have in our  
16 State. The companies that I've worked with have had the  
17 ability to choose between the utility and the deregulated  
18 third-party source. There was no cap. Companies who are  
19 now participating in Electric Choice have enjoyed  
20 significant savings, but unfortunately, as we've heard  
21 earlier today, it's also created losers and winners. I'd  
22 like to give you a couple of examples.

23                   One example is Hungry Howie's Pizza.  
24 They have 26 stores participating in the Choice program.  
25 Now, they had to move one of their stores about four

1 blocks from its prior location last year, and because the  
2 way the program is structured with DTE, the Choice did  
3 not transfer and they couldn't put that new location on  
4 to the Choice program. So clearly it's creating a  
5 disincentive to bringing new businesses into their chain  
6 into the State at this time.

7 Another example, Superior Heat Treat in  
8 Clinton Township. They're waiting in the queue, and they  
9 have to compete with other heat treaters in Michigan that  
10 are taking Electric Choice, as well as heat treaters in  
11 Ohio and Indiana and Illinois that are enjoying more  
12 favorable rates.

13 Shouldn't Michigan businesses have the  
14 opportunity to choose?

15 But Superior Heat Treat isn't the only  
16 company that is waiting in the queue hoping to have a  
17 choice. As we learned earlier today, there are 9,000  
18 plus other companies that are looking for this  
19 opportunity to manage their own electric rates. Now, if  
20 things are so good with DTE and Consumers, then why are  
21 these 9,000 companies wanting to make a change?

22 Michigan needs to create an environment  
23 that fosters the opportunity for growth, that presents an  
24 opportunity that brings companies into our State, that  
25 causes them to want to stay, to want to grow, and the

1 best way that we can see for doing that is to lower the  
2 cost of the utility electricity and give them a choice.  
3 Thank you very much.

4 FRANK ZASKI: Thank you, Director and  
5 Mr. Chairman. Did you guys know that left-handed people  
6 are more intelligent and creative?

7 O.K. My name is Frank Zaski, I was a  
8 member of the 21st Century Energy Efficiency, Energy  
9 Efficiency Team, the Michigan Climate Action Council, RCI  
10 Work Group, Midwest Governors Association, Renewable  
11 Energy Advisory Team, and I am also a DTE and CMS  
12 shareholder and ratepayer, and a numbers cruncher in the  
13 auto industry.

14 According to the Energy Information  
15 Agency, the EIA, electric rates in Michigan are higher  
16 than in eight other states. Our rate increase was 8  
17 percent last year compared to 1 percent nationally. Now,  
18 I know our rates have escalated since 2008 due to  
19 Customer Choice, people have pointed this out. It's not  
20 that simple, it wasn't just Choice cap, rates went up.  
21 There are a lot of things. We invested in emissions  
22 controls, we invested in renewable energy, we invested in  
23 Smart Meters. But I calculated, the numbers cruncher in  
24 me, calculated actually coal might be the biggest factor  
25 in rate increases in Michigan, because Michigan is still

1 heavily dependent on coal to generate our electricity,  
2 particularly DTE at 73 percent last year. 2008 was  
3 actually the beginning of our more recent escalation in  
4 fuel prices, for diesel particularly.

5 Powder River basin coal sells for about  
6 \$10 a ton. It takes about \$25 of diesel fuel to ship it  
7 to Michigan; that's five to seven gallons. Diesel  
8 prices -- actually, diesel prices have a bigger impact on  
9 our electric rates probably than the actual price of coal  
10 being mined. Michigan, the trouble is that the problem  
11 is Michigan has the worst combination of high dependence  
12 on coal, 49 percent this past year to generate  
13 electricity, and high delivered coal prices, and we are  
14 further away from Powder River basin mines than most coal  
15 users.

16 If Michigan ratepayers pay only the U.S.  
17 average electric rate, we would have saved \$1.2 billion  
18 dollar on our ratepayer -- on our bills last year. This  
19 is the same amount the Governor is asking for to fix our  
20 roads.

21 One solution is to slow, to slow the  
22 Michigan electric rate increases, to reduce the utilities  
23 rate of return on their investments to the national  
24 average. In their presentation to investment analysts,  
25 and these are the top guys of CMS and DTE -- I'm a



1 shareholder and I watch their, I listen to them -- they  
2 talk about the very constructive relationship with the  
3 Michigan Public Service Commission. This is a little bit  
4 concerning to me when they use the word very constructive  
5 and Public Service Commission in the same sentence. The  
6 utilities are quick to point out they are getting a  
7 higher guaranteed rate of return on their investments  
8 versus their peers in other states. I think they're,  
9 depending on the case, they're about 10.55 percent. The  
10 U.S. average in 2012 was 10.0 percent, and that is down  
11 from 10.2 in 2011, 11 percent a decade ago. So  
12 nationally, the rate of return on investment is dropping  
13 while our people are enjoying an above-average rate.

14 DTE and CMS are really quite happy in  
15 their presentations that their earnings per share of  
16 growth would be about 6 percent a year through the year  
17 2017. Well, that's pretty good. And they point out that  
18 their peers in other states are around 4 percent a year.  
19 So they're enjoying a very good profit now, and a very  
20 good profit forecast into the future, far above average.

21 The problem with this is that  
22 (inaudible), I think they're getting this, but we're  
23 paying for it, everybody out here who is a ratepayer is  
24 paying for it, and particularly our poorest people, you  
25 know, on the street here, they're paying for the

1 prosperity of DTE and CMS.

2           Anyway, so one way to cut this kind of  
3 impact on our Michigan citizens is to become more energy  
4 efficient. And the trouble is we're not very energy  
5 efficient. Michigan is very far behind compared to 10  
6 other midwestern states. According to EIA report,  
7 residential energy consumption survey, Michigan homes are  
8 draftier and they're poorly insulated; homeowners pay  
9 more than any midwest state to heat their homes; we keep  
10 the heating temperature higher, probably because they're  
11 draftier; we're much less likely to clean our furnaces.  
12 I guess the EIA asked everything. We also have a lower  
13 percentage of Energy Star rated appliances and  
14 electronics; and a lower percentage of CFL lightbulbs in  
15 Michigan than the 10 or 9 other midwestern states we're  
16 behind.

17           Michigan really needs to continue the  
18 energy optimization programs, and even strengthen it to 2  
19 percent for reduction in electric costs, and keep at the  
20 1 -- or the .75 reduction in natural gas savings. This  
21 was the unanimous recommendation of the Michigan Climate  
22 Action Council, the MCAC, from a few years ago. The MCAC  
23 was comprised of utilities, government, academia,  
24 environmentalists, corporations, GM, Ford, and an  
25 activist. And 52 of the 54 energy efficiency

1 recommendations were approved unanimously by this  
2 broad-based council. So their findings are still pretty  
3 timely.

4 But the utilities probably really don't  
5 want to go too quickly into energy efficiency. Even  
6 though they get some incentives, it still hurts their  
7 profits. One way to (inaudible) is they take the energy  
8 efficiency programs away from the utilities is to create  
9 a one organization that handles entire Michigan. This  
10 would reduce overhead, bureaucracy, inconsistent results,  
11 confusion and conflict of interest on the utility part.  
12 This organization could be funded to the extent that it  
13 would, it would take to do a 2-percent a year electric  
14 reduction or .75 in natural gas. And then at some point  
15 if that doesn't look like it's paying back, stop it or  
16 slow the contributions. A couple other states have  
17 successful programs of this nature; Wisconsin,  
18 Minnesota -- or not Minnesota -- but Massachusetts and  
19 Vermont.

20 We have a lot of catching up to do, as  
21 you can see, because we're way behind.

22 Another thing is maximize our demand  
23 response in Michigan. A FERC study suggested that  
24 Michigan potential peak demand reduction is 16 percent.  
25 We won't need as much peaking capacity those hot days in

1 the summer and August if we have a better demand  
2 response, so that's interruptible. Air conditioning,  
3 interruptible; lighting, interruptible; water heating  
4 tied to the pricing or signal. Maybe we could actually  
5 use the smartness of the Smart Meters to its fullest  
6 extent.

7 And then the last point, Michigan water  
8 utilities need to cut water leakage. According to the  
9 Detroit Free Press article last year, Detroit's water  
10 system leaks 35 billion gallons of water a year, with a  
11 B. This is as much water as used by 16 coal plants.  
12 They quote a study, okay, 16 billion -- or 35 billion  
13 gallons of water. The University of Michigan reports  
14 there's approximately 80 percent of municipal water  
15 processing and distribution costs are for electricity.  
16 We need to address the electric and water waste in our  
17 municipal water systems as well.

18 Thank you.

19 LEW BANWART: Hello, and thank you to  
20 those that have hung around today. My name is Lew  
21 Banwart, I'm a Michigan native and graduate of Eastern  
22 Michigan University, currently living in Pinckney,  
23 Michigan.

24 I'm here to give you my viewpoint on a  
25 couple of issues; Energy Choice and deregulation. I work  
Metro Court Reporters, Inc. 248.426.9530

1 through Integrity Energy Services, we're a small energy  
2 broker with over 60 years' combined experience in the  
3 energy field. We currently have approximately 30 small  
4 and medium-size companies on standby hoping someday to  
5 get them out of the energy pricing mold called the queue.  
6 I've also spoken directly to at least 20 companies that  
7 do not want to even make the effort with the hurdles the  
8 queue requires just to get in it.

9 Energy Choice as it stands today under  
10 current Michigan law is in name only. I say that because  
11 I have a client that has been in the queue for over two  
12 years, and another will reach that milestone in a couple  
13 months. Normal expectations are that the queue line will  
14 eventually move. Under the current system, it is easy to  
15 conclude the queue line may never move. Consequently,  
16 there is no Customer Choice.

17 I would also like to speak a little bit  
18 about deregulation. I'm a former airline executive,  
19 having spent 20 years at Northwest Airlines. I saw  
20 firsthand the deregulation of the airline industry. You  
21 talk about choosing winners and losers; that is exactly  
22 what the old Civil Aeronautics Board, we called the CAB,  
23 did. They set air fares, decided which airports airlines  
24 could fly into and out of, and which routes airlines  
25 could fly. We could debate the ups and downs of airline

1 deregulation all day long, but most informed minds will  
2 tell you that it is and it was successful. Without  
3 deregulation, there would be no low-fare airlines and  
4 ticket prices would be astronomical.

5           Deregulation forced airlines to do a  
6 number of things better to compete and survive. They had  
7 to become competitive through price decontrol, or what  
8 today are discounted fares. They had to become more  
9 efficient through route selections and the use of  
10 different size aircraft for those routes. And they had  
11 to become more productive through technology and through  
12 flight and new management systems. In fact, do you know  
13 that 91 percent of all passenger miles traveled today are  
14 on discounted tickets, and the consumers have saved  
15 between 5 and 10 billion dollars since airline  
16 deregulation began.

17           Are there consequences to deregulation?  
18 Of course. Those airlines that could not adapt are no  
19 longer around or are a part of another carrier. The key  
20 here, why I even spoke about this, is airline  
21 deregulation in the long run has benefited the consumer.  
22 Deregulation has benefited the consumer in other  
23 industries we know well, such as cell phones, cable TV  
24 and the trucking industry.

25           I believe we will benefit as well here in  
Metro Court Reporters, Inc. 248.426.9530

1 Michigan in a fully deregulated energy market. I  
2 estimate that the companies, (inaudible) a few right now,  
3 had they been able to make the choice of their energy  
4 supplier when they wanted to would have already saved  
5 over \$350,000.

6 Waiting in line for over two years and  
7 especially not having the right to control your own  
8 energy costs are not the ways to rally an economy for  
9 small and medium-size businesses. If Michigan lawmakers  
10 really want to help them, they need to get out of the way  
11 and let the marketplace decide the winners and losers.

12 Public Act 141 was supposed to offer  
13 competition within the electric industry. Deregulation  
14 as it stands today with the queue system, simply put, is  
15 not working. We need to restructure. Thank you very  
16 much for this opportunity.

17 SANDRA TURNER-HANDY: I have to find the  
18 spot where I can see this. Good afternoon. My name is  
19 Sandra Turner-Handy, I'm the community outreach director  
20 for the Michigan Environmental Council, which is also a  
21 member of Zero Waste Detroit. Thank you, all, for  
22 allowing me to speak.

23 Detroit renewable energy waste-to-energy  
24 facility, also known as the incinerator, was  
25 grandfathered in as a renewable energy source. Since

1 that time, various research data has shown the  
2 environmental justice impacts on low-income communities  
3 of color. In the study conducted by the Michigan  
4 Department of Community Health, it was found that the zip  
5 code 48201 surrounding the incinerator, and the zip code  
6 48217, where Marathon, the DTE coke plant, and other  
7 polluting facilities have the highest rate of asthma in  
8 the State of Michigan.

9 Detroit children bear the greatest burden  
10 of hospitalization and death related to asthma than any  
11 other city in the State of Michigan. Adults are  
12 hospitalized 50 percent more than any other city in  
13 Michigan. Asthma rates for children, for children  
14 hospitalization is 50 percent higher than those adults.  
15 Rates of asthma-related hospitalizations is three times  
16 more likely in Detroit. Rates of asthma death are two  
17 times higher than any other city in the State of  
18 Michigan.

19 The State has failed, first, to redefine  
20 renewable energy minus incineration. The State has  
21 failed, second, to determine any actions to reduce the  
22 burden on our most vulnerable population, our children.  
23 In fact, we have granted subsidies to the incinerator  
24 owners that suggests that this outdated energy source is  
25 more important than people, especially our children. The



1 high cost of healthcare for treatment and hospitalization  
2 has placed further economic burdens on our families.

3 The Governor's energy message called for  
4 increased recycling within our State, which falls far  
5 below other states in our region. This message is a  
6 direct contradiction to incinerating recyclable  
7 materials. Higher recycling rates can not and will not  
8 be achieved if we continue to incinerate valuable  
9 economic materials. Thank you.

10 STEVE BAKKAL: Thanks, everyone, for  
11 waiting. Our next four speakers, Doug Boyce, Tecora  
12 Kindle, Margaret Weber and Nick Schroeck, please come up  
13 to the stage.

14 MARGARET WEBER: Good evening, and thank  
15 you. I am Margaret Weber, Convenor of Zero Waste  
16 Detroit, a collaborative of over 20 environmental and  
17 civic organizations here in the city.

18 I want first to respectfully state that  
19 it is gravely disappointing that the Governor himself is  
20 not present today for this forum. Any decisions that he  
21 will make as Governor will greatly impact Detroit  
22 residents and citizens. He has just taken a decision to  
23 appoint an emergency financial manager for Detroit,  
24 creating the impression that he does not have confidence  
25 in Detroit's locally elected government. It would be

1 more respectful of Detroiters if the Governor were  
2 present today when Detroit residents expressed their  
3 concerns and experiences related to energy. He is  
4 missing the opportunity to hear directly what he may not  
5 know.

6           Regarding energy policy, I urge the  
7 Governor not to invest or subsidize waste-to-energy or  
8 incineration as a renewable energy. This city has direct  
9 experience with the high cost of WTE; 20 years' debt  
10 obligation has cost us, the taxpayers of this city, over  
11 \$1.2 billion. Detroit is just beginning to recycle, a  
12 goal that historically has been impeded because of a  
13 previous investment in and debt obligation to the  
14 building of the incinerator at I-94 and I-75.

15           That debt obligation is behind us, but I  
16 emphasize that Detroit still lives with the effects of  
17 that cost. The \$1.2 billion could have been used for  
18 other more sustainable investments, and Detroit could be  
19 further along the Governor's goal for recycling. We  
20 could have had investment in the waste stream as  
21 commodities that create businesses, builds business,  
22 create jobs, and create new materials.

23           We urge the Governor to be very mindful  
24 of choices. Waste-to-energy directly competes with his  
25 recycling goal. And make no mistake about it. In

1 practice, one or the other will have an investment  
2 priority. We in Detroit know and we urgently urge him to  
3 make the priority recycling.

4 Finally, I conclude with a request.  
5 Citizen groups such as Waste, Zero Waste Detroit have  
6 related directly to all successive mayoral offices and  
7 city councils. With Mr. Orr in the position of emergency  
8 financial manager, it is not at all evident how citizen  
9 input can be given or that it will be valued. Related to  
10 recycling, we know from our experience that citizen input  
11 was critical and central to the emergence of a Detroit  
12 recycling program. How do groups that have constructive  
13 sustainable ideas share them with Mr. Orr?

14 And therefore, we respectfully request  
15 that the Governor give us contact information for  
16 Mr. Orr's office. Thank you.

17 NICK SCHROECK: Thank you for the  
18 opportunity to be here. Nick Schroeck with the Great  
19 Lakes Environmental Law Center.

20 I'd like to speak today, though, as a  
21 citizen of southeast Michigan, a ratepayer, and a Detroit  
22 Edison customer, in fact a GreenCurrents customer, so I  
23 pay a little bit extra money every month so we can all  
24 enjoy some more renewable energy. You're welcome. I'm  
25 also a Consumers Energy customer for natural gas.

1                   And I'd like to talk a little bit about  
2                   one factor that I don't think has been brought very much  
3                   today, and that's the age of the Detroit Edison coal  
4                   fleet. We've heard a lot about our dependence on coal,  
5                   the cost of that coal to our environment, to our public  
6                   health; but, you know, that coal is even worse here in  
7                   Michigan because the facilities that are burning it are  
8                   aged, and in fact, they're out of compliance with certain  
9                   sections of the Clean Air Act dealing with (inaudible)  
10                  capacity.

11                  I was lucky, I was fortunate, I grew up  
12                  in an area where I didn't know what a coal plant looked  
13                  like; in fact, my elementary school was down the street  
14                  from a cider mill, you know, it looked like a Pure  
15                  Michigan ad. But there's a lot of little kids who go to  
16                  school every day next to that incinerator, there's a lot  
17                  of little kids who go to school every day next to  
18                  Trenton's coal plant or River Rouge's coal plant, and  
19                  they don't know what anything looks like other than that  
20                  soot and that smoke; and we're all benefiting in some way  
21                  from those kids' suffering, and that's something that  
22                  this State needs to take a look at. It's a question of  
23                  equity, it's a question of justice, it's a question of  
24                  fairness.

25                  So while my technical comments will focus  
                    Metro Court Reporters, Inc.   248.426.9530

1 on increases in renewable energy and increases in energy  
2 optimization efficiency, I want to make sure that for  
3 those folks that aren't able to speak here today, we know  
4 that there are significant impacts to people in these  
5 communities where our electricity is coming from here in  
6 the DTE service fleet. We need to clean up those  
7 facilities so those kids can have a chance at achieving  
8 everything that's their God-given right. Thank you.

9 STEVE BAKKAL: Thank you. Our next four  
10 speaker are Brad Klein, Ryan Naibach, Frank Schulmeister,  
11 and Nanam Seubert, so if you can come up to the stage.

12 And again, for the people in the lobby,  
13 there's plenty of room in the auditorium, so feel free to  
14 come in. We have four no shows.

15 Very well. Our next four, Bill Ghrist,  
16 Tim Luke, Michelle Martin, and Nicole O'Brien.

17 BILL GHRIST: Mine will be fairly short  
18 and sweet. I'd like to start off by thanking Chairman  
19 Quackenbush and Director Bakkal. My name is Bill Ghrist,  
20 I am the energy manager for Washtenaw Community College  
21 over in Washtenaw County.

22 I'm here today to express our need to see  
23 the energy Choice cap be lifted. It is something that  
24 we've been one of the individuals in the queue for  
25 probably greater than two years, and it would really

1 benefit us to be able to switch over. This would allow  
2 all users presently in the queue to have the opportunity  
3 to negotiate for the fairest price of electrical energy.

4 WCC presently spends approximately just a  
5 little under \$2 million of our electricity, towards  
6 electricity out of a \$94.1 million budget, so it's a  
7 significant portion. Reducing our electricity costs  
8 combined with energy conserving measures would allow us  
9 to redirect budget dollars to educational needs, as well  
10 as other technologies used to further reduce our overall  
11 energy consumption.

12 WCC sees House Bill 5503 as a viable  
13 solution for many businesses currently in the State, as  
14 well as future businesses, to control energy costs which  
15 has become an ever-larger portion of our operating  
16 budgets. We ask that the Governor, Public Service  
17 Commission, and the state legislators work  
18 collaboratively and expeditiously to improve the energy  
19 costs and policies so that the great State of Michigan  
20 can move forward and prosper.

21 We also have developed a number of  
22 programs at the Community College which has helped us to  
23 be able to improve our energy efficiency. Every building  
24 that is constructed presently or renovated is done to  
25 LEED Gold Certification or better. We also have been

1 implementing many energy efficiency programs, such as  
2 variable frequency drive for our HVAC and also LED  
3 lighting across much of our campus. And finally, we have  
4 also, our president has become signatory to the  
5 Collegiate Presidents Climate Action Plan, which is  
6 designed to help reduce our greenhouse gas inventories  
7 and improve the overall operation.

8 And one last note, we do also have  
9 developed an entire curriculum for the environmental  
10 sciences program which ties into developing our future  
11 students and the future employees that will help to  
12 improve the overall economic climate.

13 So thank you.

14 NICOLE O'BRIEN: Good evening. I'd like  
15 to start off by thanking Commissioner Quackenbush and  
16 Director Bakkal for this opportunity to talk here today  
17 and discuss what I feel is a monumental issue facing each  
18 and every resident of our great state.

19 My name is Nicole O'Brien, and I'm here  
20 with the Clean Water Action, but I'm also here as a  
21 mother, a mother who's immensely concerned about our  
22 effects on the environment and the mess that we've  
23 created for our children.

24 The focus today is on Michigan's energy  
25 future. What paths should we take? Where should we

1 invest our money and resources? And what needs to  
2 change?

3 I'm not going to stand up here and claim  
4 to have all the answers, but I do know that protecting  
5 our environment should be on everyone's agenda,  
6 republicans, democrats, greens, liberals, conservatives,  
7 constitutionalists, everyone. We need to stop using our  
8 planet as if it were -- as if we had another one. We  
9 have only one earth, one home, and so we need to  
10 encourage policies that protect our environment for  
11 future generations.

12 Investments in renewable energy, energy  
13 optimization, and energy education are imperative. We  
14 need to move away from dirty energy, because coal plants  
15 are simply too damaging to our planet. Instead we need  
16 to promote cleaner and renewable resources, such as solar  
17 and wind. We must make these changes to protect public  
18 health, future generations, and to boost Michigan's  
19 economy.

20 When deciding which form of energy we  
21 should invest our money in, one aspect we must consider  
22 is cost; and according to the MPSC's report on the  
23 implementation of Public Act 295 which was released on  
24 February 15th year, the cost of a new conventional coal  
25 plant is \$133 per megawatt hour, whereas the cost of a



1 renewable energy standard is \$82.54 per megawatt hour.  
2 By choosing a renewable energy standard, the result is a  
3 \$50 difference in savings per energy hour. With the  
4 additional savings of energy optimization standards now  
5 in effect, there's an even greater return on investing in  
6 renewable energy. With the renewable energy standard and  
7 the energy optimization standard combined, the rates are  
8 lowered to \$45.98, which gives the investors an overall  
9 savings of \$87 per megawatt hour. To me it seems the  
10 only logical choice is to focus new investments on  
11 renewable energy and energy optimization. Not only is it  
12 a more responsible choice, but also more cost-effective  
13 solution.

14 Michigan must continue making strides to  
15 improve our renewable energy standards. We must expand  
16 financial incentives for customers, and encourage  
17 Michigan residents to become more energy efficient. This  
18 will not only help to improve the quality of our  
19 environment, but it will also help to create jobs.

20 Along with policies encouraging renewable  
21 and optimization, we must also focus on energy education.  
22 People of all ages need to have a better understanding of  
23 our energy uses and waste. We should take a look at the  
24 U.S. Department of Energy's energy literacy program as a  
25 guide. The goal of this program is to empower

1 individuals and communities to make more informed  
2 decisions.

3 In a perfect world, we would all work  
4 together to ensure that new policies facilitate energy  
5 optimization and renewable energy investments.  
6 Protecting our environment should have never been and  
7 never should be a partisan issue. It is simply the right  
8 thing to do.

9 We did not inherit this earth from our  
10 ancestors, we are borrowing it from our children. We  
11 must evolve and we must move away from our reliance on  
12 dirty energy and energy waste. It is time to focus our  
13 efforts on clean, renewable and efficient energy  
14 resources. We have a moral obligation to future  
15 generations to make the health of our environment the top  
16 priority.

17 Thank you once again, Director and  
18 Commissioner, for bringing us all together to discuss  
19 this critical issue facing our Great Lakes State.

20 STEVE BAKKAL: We're going to keep going  
21 until 6:00 p.m. I think we've gone through about 45  
22 requests, with some no shows in between.

23 Next four speakers Gail Barber, Tracy  
24 Oberleiter, Louis James, and Ahmina Maxey, if you're  
25 still here.

1 GAIL BARBER: Thank you, Director and  
2 Commissioner. Thank you, ladies and gentlemen. My name  
3 is Gail Barber, I live in Southfield. I'm not affiliated  
4 with any organization. I'm a retired school teacher,  
5 small business owner, and now an organic farmer, fifth  
6 generation farmer and third generation owner and operator  
7 of a farm in Illinois.

8 I'm also the proud owner of 43  
9 photovoltaic panels on my home in Southfield. Ask me  
10 what my electricity bill has been for 22 months. Thank  
11 you, DTE, for the SolarCurrents program. I wish more  
12 people on my block, that's what I envisioned, could have  
13 more panels.

14 I'm here today, it is my intent to share  
15 data and suggestions that pertain to the content of  
16 Question 10 supplied by the Commission: Renewable energy  
17 as it pertains to the cost comparisons for different  
18 types of energy production, specifically, the extraction  
19 of the natural gas via hydraulic fracturing and  
20 horizontal drilling. I'm going to address the health  
21 costs, and I'd like to thank all the speakers before me  
22 who have addressed the health issues, and everyone  
23 really. I've learned a lot from the interesting,  
24 creative minds that are at work here, even especially us  
25 left handers.

1                   It's my understanding that Governor  
2           Snyder has asked for increased production of natural gas  
3           in Michigan. I could not disagree with him more. For  
4           the record, I request that Governor Snyder, the state  
5           legislature and the Michigan Energy Office, in the  
6           process of determining how energy will be produced in  
7           this State, place a ban on or, at the very least, a  
8           moratorium on all hydrofracking until all environmental  
9           and human health costs and risks have been made  
10          transparent.

11                   In support of that request, I am  
12          submitting data from the work of Dr. Sandra Steingraber,  
13          S-t-e-i-n-g-r-a-b-e-r. I know you're all brain dead by  
14          now; go home, when you have some energy, and Google  
15          Sandra Steingraber, an internationally recognized  
16          authority on the environmental links to cancer and human  
17          health.

18                   Dr. Steingraber, with whom I've had the  
19          distinct honor of working, is a biologist, author, a  
20          highly regarded public speaker, and a cancer survivor.  
21          She is the author of three highly acclaimed books:  
22          "Living Downstream: An Ecologist's Personal  
23          Investigation of Cancer and the Environment", which has  
24          been made into an award-winning feature length  
25          documentary; "Having Faith", her second book, writes of

1 her own first pregnancy, brilliantly describing the  
2 month-by-month unfolding of embryonic organs and the  
3 alarming extent to which environmental hazards, including  
4 the toxic cocktail mix of industrial poisons, such as  
5 those found in hydrofracking, now threaten each crucial  
6 stage of infant development. Her third books, "Raising  
7 Elijah: Protecting Our Children in the Age of  
8 Environmental Crisis", in which she describes the  
9 endocrine disrupting and the neurological damaging impact  
10 synthetic chemicals have on the developing systems of  
11 children.

12 In the past five years she has immersed  
13 herself in the hydrofracking conversation, working  
14 tirelessly not only in her home state of New York, but  
15 all over this country and Europe, in an effort to prevent  
16 the hydrofracking industry from taking hold. I believe  
17 her volume of writing is a much needed addition to the  
18 debate in this State on what our energy future should  
19 look like.

20 To this end, I have submitted to the  
21 Commission the following three items written by  
22 Dr. Steingraber:

23 1. A letter to the New York Governor  
24 Andrew Cuomo, undersigned by 135,000 cancer survivors or  
25 people who have been acquainted with cancer survivors --

Metro Court Reporters, Inc. 248.426.9530

1 with cancer diagnosis, excuse me, requesting that he  
2 consider the cancer risks and the associated terrible  
3 costs when conducting a comprehensive assessment of  
4 potential health impacts due to fracking.

5                   Quickly I will read a couple of  
6 statements. My time is up.

7                   Her second article -- let me finish -- an  
8 article entitled "The Whole Fracking Enchilada", in which  
9 she states that she believes that extracting natural gas  
10 from shale using hydrofracking is the environmental  
11 crisis of our time.

12                   Her third article, "Cancer in the Ransom  
13 Note", which I will quote, is an expansion on the report  
14 titled "Fracking: The New Global Warming Crisis",  
15 written by the Food and Water Watch. I quote her: We do  
16 not consent to the delivery of our drinking water into  
17 the radioactive bowels of the earth. We will not  
18 negotiate with those who think additional -- that  
19 additional cases of leukemia, bladder, colon, lung and  
20 prostate cancer are just part of price you pay for gas.  
21 Tear up the ransom note. Find another energy plan. Set  
22 a sustainable course.

23                   I conclude by asking the leadership of  
24 this State, a State made up of over 10,000 lakes inland,  
25 surrounded by the magnificent Great Lakes, which make up

1 a third of the fresh water in this world waiting to be  
2 portals for toxic extermination, to lead us away from  
3 this toxic cancer-causing industry into a clear, clean  
4 sustainable and economically viable energy production.  
5 Thank you very much.

6 AHMINA MAXEY: O.K. Good evening,  
7 everyone. I'll try to keep this to three minutes, so I  
8 will -- I'm sorry -- I will keep it to three minutes. So  
9 my name is Ahmina Maxey, I'm with the Zero Waste Detroit  
10 Coalition. I'm here to talk about the renewable  
11 portfolio standard.

12 We as a coalition support renewable  
13 energy in the State. It can bring jobs. We want more  
14 investment in the economy. We support true forms of  
15 renewable energy; wind, solar.

16 One form of renewable energy that's  
17 classified as renewable that we do not view as renewable  
18 is waste-to-energy. Waste-to-energy, if you look at the  
19 facts of the waste-to-energy industry, not the talking  
20 points, but the facts, consult the research, consult  
21 studies, you will find that it is not a form of renewable  
22 energy. Waste-to-energy is extremely costly. The  
23 operations and maintenance costs are 10 times greater  
24 than coal, and four times greater than nuclear. In  
25 addition, incinerators emit more greenhouse gases, more

1 carbon dioxide per unit of electricity than coal-fired  
2 power plants. Incinerators emit 2,988 pounds per  
3 megawatt hour, compared to coal-fired power plants at  
4 2,249.

5 So when we talk about renewal, we talk  
6 about improving the quality of life, the environmental  
7 conditions in our State, waste-to-energy is not the way  
8 forward. There are states throughout the nation that do  
9 not include waste, municipal solid waste generation in  
10 their renewable portfolio standards, so Michigan will be  
11 joining that group; states including New York, Arizona,  
12 Delaware. One state, the State of New York, when an  
13 incineration company attempted to have municipal solid  
14 waste included in their renewable portfolio standard, the  
15 New York attorney general, Eric Schneiderman, in 2011  
16 opposed their request, citing multiple reasons, including  
17 energy from combusting municipal solid waste is not  
18 renewable. Claims that waste-to-energy result in net  
19 removal of greenhouse gases from the atmosphere is  
20 unsubstantiated and scientifically uncertain. These are  
21 direct quotes from their attorney general. Subsidizing  
22 construction of new waste-to-energy facilities threatens  
23 the state's ability to reach greenhouse gas production  
24 goals.

25 Essentially, when it comes down to it, if  
Metro Court Reporters, Inc. 248.426.9530



1 you are burning fossil fuels, you're burning plastic,  
2 you're burning paper, you're burning things in a  
3 waste-to-energy facility, that is not renewable, that's  
4 not how we view it, and so we really would like the State  
5 to take that into consideration when going forward with  
6 its renewable energy policy. Thank you.

7 STEVE BAKKAL: Our next speakers, Nancy  
8 Davis, Dean Sousanis, Henry Newnan, and Thomas Reinke.  
9 Anyone still here?

10 NANCY DAVIS: I'm Nancy Davis. I want to  
11 thank you for allowing us to express our comments today.  
12 Mine are going to be on the potential of clean energy and  
13 the necessity of transitioning with the utmost urgency to  
14 clean energy in order to improve public health and create  
15 new jobs for Michigan.

16 As a former city council member in  
17 Orchard Lake, I was shocked to learn that our fish in  
18 Orchard Lake were contaminated with mercury. I was even  
19 more taken aback to realize and understand that all  
20 Michigan's 11,000 lakes have -- were issuing a fish  
21 consumption advisory by the State of Michigan. I  
22 wondered what was going on. It was really horrifying to  
23 realize that coal-burning power plants were the major  
24 source of this contamination. That was over 13 years  
25 ago. Unfortunately, the problem's gotten worse and the

1 levels of mercury are rising in State. I just talked in  
2 fact to someone from DEQ the other day. Tragically,  
3 coal-burning power plants still rely on coal to produce  
4 60 percent of electric power. Now, throughout the United  
5 States and Michigan, one out of six women have elevated  
6 levels of this potent neurotoxin in their blood.

7 In addition, Michigan's spends nearly \$2  
8 billion to import coal to Michigan, and then also spends  
9 an additional 1.5 billion every year in healthcare costs  
10 directly linked to burning fossil fuels. This is  
11 according to the American Lung Association. The cancer  
12 rate in metro Detroit is 200 times higher than acceptable  
13 levels, according to the EPA.

14 While coal is more polluting, all fossil  
15 fuels, gas and oil, are also dangerous; they contain some  
16 300 carcinogens, like arsenic and sulphur dioxide, that  
17 are directly linked to cancer, asthma, heart and lung  
18 disease. And recently you probably heard that the World  
19 Health Organization found diesel exhaust to be  
20 cancer-causing. 41 percent of Americans suffer from  
21 dangerous levels of pollution; they live near those  
22 areas.

23 Is fracking the answer? No. When every  
24 well is fracked, up to 8 million gallons of water is  
25 used, much of it is sent, you know, two miles underground

1 and it doesn't come back up, all of that fracking water  
2 is contaminated with chemicals. So in a sense, it's all  
3 ruined. How can our State afford to lose that good  
4 surface water? And each well can be fracked up to 18  
5 times.

6 Is nuclear the answer? Not with the  
7 history of accidents, near meltdowns, and no safe storage  
8 for the dangerous waste.

9 So let's go to clean renewable energy. I  
10 have and hope and pray that Governor Snyder will have the  
11 courage and insight to take Michigan into a clean energy  
12 future that studies have shown will create 44,000 new  
13 jobs. Already over 100 solar companies call Michigan  
14 home, and we rank fourth in the capacity to produce wind.

15 Just one final comment. Up in the U.P.  
16 they found, studies found, I think it was by Michigan  
17 State, that there is the capacity in four or five  
18 different places in the U.P. to create the equivalent of  
19 300 Fermi 2 nuclear power plants; and this way they could  
20 be placed out of tourist views and also bird migratory  
21 paths.

22 At a time when world population is  
23 growing exponentially, adding one billion every 10 to 13  
24 years, action is needed now. Now is the time to have the  
25 courage of our ancestors to take a stand and protect

1 future generations. Our ancestors puts their lives on  
2 the line to defeat powerful dictators, monarchs and slave  
3 holders; and now is our time to stand up to entrenched  
4 interests and lead the world to clean, safe energy.

5 Thank you.

6 ANNE SOUSANIS: Thank you. Nice to be  
7 here this afternoon. My name is Anne Sousanis, I am from  
8 Lapeer County. My comments kind of tack on to what was  
9 just said.

10 I have a concern regarding fracking for  
11 natural gas, and I'm referring to unconventional  
12 high-volume, slick-water hydraulic fracturing by  
13 horizontal drilling in multiple well pads. That's a  
14 mouth full of words and it's a very complex issue that  
15 has a lot of potential impact for our community, for our  
16 public health and safety, for our water, and beyond that.

17 As was just said, this is a process that  
18 uses millions of gallons of water, millions, that can  
19 never go back into the water cycle. And in part, because  
20 they have been mixed in with many different kinds of  
21 chemicals, some of them are considered proprietary or  
22 secret, and some of them are very toxic, even in very  
23 small amounts. At the other end of the process, there's  
24 a concern regarding the injection wells, the wells where  
25 the waste water has to go as it comes back up from this

1 process, it has to be stored somewhere. It is further  
2 contaminated with heavy metals, naturally occurring  
3 radioactive materials. There's a big concern about that.

4 In a lot of the research I've done, in  
5 the meetings I've been to, there was concern expressed  
6 all the way through for the need for more information,  
7 for baseline data, for regulation, even as the  
8 permitting, the leasing and the drilling are going on.  
9 And they're far ahead of the science and the knowledge  
10 and the public involvement, that's why a meeting like  
11 this is so important, and we need more of them so that we  
12 can all get informed.

13 We have alternatives for fossil fuel to  
14 produce energy. We don't have an alternative for clean  
15 water. We need to put our effort and funding into  
16 alternative clean energy technology and implementation,  
17 as well as energy conservation and efficiency.

18 That slogan we have of Pure Michigan, we  
19 need to keep working to keep it that way. Thank you very  
20 much.

21 DEAN SOUSANIS: I go with her. I'm Dean  
22 Sousanis from Lapeer County. I've been teaching physics  
23 for 48 years.

24 Yes, I'd like to see renewables. I'm  
25 quite worried about, the same as we were for waste 50

1 years ago, with nuclear, we still don't know what to do  
2 with it, and I think there's a good chance injection  
3 wells might be worse yet. They're real time bombs.

4 But on the supply side, it's really  
5 interesting to hear everybody talk about, you know, the  
6 different restructurings, the different sources of  
7 energy.

8 I want to talk about the demand side; a  
9 little bit out of the box, a little bit long term. When  
10 I was eight years old, I took a bus from my Pontiac house  
11 down to the street car on Saginaw and went to visit my  
12 aunt in Detroit by taking another transfer, another bus,  
13 and going to another side of Detroit. So I moved around  
14 pretty good before I could drive. And now I'm at the  
15 age, over 70, where I'm not, a lot of people would rather  
16 not have me drive.

17 I've got to tell you, I spent no less  
18 than 10,000 a year, because I know our family, both of us  
19 drive more than 20,000 a year, on a really big piece of  
20 energy, and that's of course the automobile on the roads.  
21 And, you know, the two biggest issues in this area in  
22 Michigan, Pure Michigan, which I really kind of believe  
23 in it because I think that's a wonderful thing, that  
24 brings democrats and republicans together, are the roads  
25 and Detroit.

1                   And it seems to me, when we've been  
2           talking about all these choices, one of the choices that  
3           I no longer have and my kids don't have, I've had to  
4           drive them everywhere, is transportation choices, and  
5           that is a monster energy thing, and that's something that  
6           can make Michigan and Detroit maybe a good place to go.  
7           You know, we visit Toronto, we visit New York, we visit  
8           cities like Chicago that have many different ways to  
9           transport ourselves. We are not an efficiently disbursed  
10          or connected state. And if we can improve our lakes and  
11          our (inaudible) with each other, we might actually be  
12          able to not only move around more efficiently, but also  
13          get along a little better and take advantage of our State  
14          a little better.

15                   It's quite a trip for us to come down  
16          here from Lapeer to here and do this or to go to the  
17          Fisher Theater or to whatever. This could be a much  
18          greater city if we had better ways for us to go to Ann  
19          Arbor or go to Lansing or go to -- which we try to do,  
20          rather than take cars, and the cost of the cars is just  
21          too much and, you know, we talk about it like a given. I  
22          think that we need more choices on transportation, and  
23          that would solve both a number of problems, and it's way  
24          more energy efficient, way more safe, and I think it  
25          would be a good reason for people like my own son, sons

1 actually who live in cities with great transportation of  
2 all kinds.

3 And the car companies no longer, I don't  
4 think they're as identified as they'd like to be with  
5 Michigan anymore. I mean I grew up at a time when  
6 everybody in Pontiac bought a Pontiac. I hope those days  
7 are gone. I'd like to see the car companies and DTE and  
8 everybody else support more transportation. That would  
9 really save energy more than anything. Thank you.

10 THOMAS REINKE: This is a huge honor.  
11 Thank you, all, for staying, and thank you, Director and  
12 Commissioner, for having all of us out here to speak our  
13 mind. I think it's important that we all group together  
14 to show the Governor that we really mean business and  
15 we're tired of lip service.

16 My name is Thomas Reinke, I am an  
17 underemployed mechanical engineer which drove me to start  
18 a renewable energy company here in Michigan. That also  
19 makes me a job seeker, a tax payer, a utility ratepayer.  
20 I'm also a supporter of Clean Water Action, Sierra Club,  
21 National Wildlife Federation, American Wind Energy  
22 Association, National Renewable Energy Laboratory,  
23 Michigan Clean Business Association.

24 You know, we may not purchase energy from  
25 other states, but we do purchase over a billion dollars



1       worth of coal and natural gas, which is not common to  
2       other states. That gives us a huge competitive  
3       disadvantage.

4               There are many reasons that we should  
5       promote a strong wind or renewable energy policy in our  
6       great industrial State of Michigan; this can be  
7       accomplished by supporting residential, small commercial,  
8       industrial wind energy generating systems. Some of us  
9       already know about the huge potential that we have here  
10      in Michigan that was mentioned, the sunlight that we  
11      have, the 22 mile an hour wind speed that we have around  
12      the Great Lakes. We already know that. In addition to  
13      supporting the utility companies' or owner-investor  
14      utility companies' efforts to install and commission  
15      commercial wind generators as a way to reduce carbon  
16      emissions that greatly contribute to climate change,  
17      global warming, we need to continue to increase our  
18      energy generation to support manufacturing and residents.  
19      That's really no secret.

20             Our plan to be, all of our plan should be  
21      to provide incentives that are equal to or comparable to  
22      other states. We don't have that. Those incentives  
23      should be provided to farmers, business owners,  
24      educational facilities, manufacturing facilities, and  
25      residents, to install equipment on site or as close as

1 humanly possible to that site to eliminate energy loss  
2 through generation, the distribution and transformation  
3 of this power that creates health benefits, as I  
4 recently, I learned at the, learned earlier today, and  
5 also reducing that transmission through our existing  
6 failing interconnected grid system.

7           What is this going to do? This is going  
8 to create jobs that can not be outsourced in every single  
9 city in the State of Michigan. These jobs are going to  
10 include crane operators, engineers, mechanical, civil,  
11 electrical engineers, heavy equipment operators, cement  
12 companies, electricity manufacturing companies, building  
13 and safety officials, general labor, skilled and  
14 unskilled, equipment service technicians, part supply  
15 companies, distribution companies, trucking and  
16 logistics, mechanics, maintenance personnel, these are  
17 all very good paying jobs.

18           What the heck happened? Detroit,  
19 Michigan, used to be the place where every, where people  
20 came from all around the world to make a better place for  
21 themselves and their family. Did we give that away for  
22 greed and profit? How do we get these jobs back? I  
23 recently learned yesterday that even our unemployment  
24 compensation as of December 31 will be cut by another  
25 10.7 percent.

1 I want to thank you all for having me  
2 today. It was a pleasure to be here. Thank you for all  
3 of your, all of the efforts, all of you came a long way.  
4 And thank you again.

5 STEVE BAKKAL: All right. We're getting  
6 kicked out. Next four speakers, Loch McCabe, Jason  
7 Coridae, Milan Stevanovich and Douglas Myers.

8 LOCH McCABE: Thank you, Commissioner  
9 Quackenbush and Director Bakkal, for making this  
10 opportunity available for us to share some additional  
11 thoughts to help make it easier for decision-makers in  
12 Michigan to be both more effective and wiser. My name is  
13 Loch McCabe, I'm president of Shepherd Advisers. We're a  
14 growth and market research firm, and we have actively  
15 worked with Michigan energy entrepreneurs, utilities,  
16 nonprofit organizations and government entities for the  
17 last dozen or so years. And I personally, like many of  
18 you, have both a personal and professional stake in what  
19 emerges from this process.

20 I'd like to offer the following thoughts.  
21 You've heard many, many, you know, much good information  
22 today that helps provide a solid technical, economic,  
23 environmental, and justice set of reasons as to why  
24 building more and more energy efficiency with renewable  
25 energy should be central to Michigan's energy future. I

1 want to offer three additional strategic economic growth  
2 reasons that energy efficiency and renewable energy  
3 should be embraced by the State of Michigan.

4 First, energy efficiency and renewable  
5 energy create a firmer foundation for future jobs. The  
6 fixed-price nature of energy efficiency and renewable  
7 energy provide an increasingly important price hedge, as  
8 we've heard earlier today, that the State can actually  
9 use I believe to bend the arc of Michigan's energy prices  
10 and be able to bend that arc downward over time. Imagine  
11 what it would be for the State if the State could begin  
12 to promise Michigan companies a range of energy prices in  
13 the future by mixing and optimizing its portfolio of  
14 energy efficiency, renewable energy, as well as fossil  
15 fuel energies. Imagine if the State could begin, through  
16 more effective planning, to lay out a course by which  
17 businesses would know for a fact that their energy prices  
18 would be declining over time. I believe that would not  
19 only help Michigan businesses that are already here plan  
20 more effectively for the future, but that would create a  
21 tremendous competitive advantage for bringing companies  
22 in from other states.

23 And, you know, we're fortunate in that  
24 Michigan is, from an energy perspective, somewhat of an  
25 island. We consume the energy we produce, we produce the

1 energy we consume, so we have the ability to control what  
2 happens in the State, and similarly, we have an abundance  
3 of solar, biomass, and wind energy and, of course, plenty  
4 of energy efficiency opportunities to actually be able to  
5 do the calculations and I believe bend the curve.

6 Secondly, the Governor has rightly placed  
7 a very high priority on doing things to keep the kids,  
8 keep our kids in this State, both kids that grow up here  
9 as well as ones that come to our great universities to  
10 study. The reality is that most young kids are striving  
11 to go to places that are cleaner and have more vibrant  
12 futures. Energy efficiency and renewable energy, these  
13 sectors are amazingly vibrant. As we speak, hundreds of  
14 companies, large and small, and thousands upon thousands  
15 of very bright people are actively trying to figure out  
16 ways, better and better ways to generate, store, manage,  
17 deliver and pay for energy, for cleaner energy.

18 We should be tapping into this, we should  
19 be fully embracing energy efficiency and renewable  
20 energy; because along with that not only come the Btus  
21 and the kilowatts, but come a whole slew of new emerging  
22 economic possibilities, possibilities that we can use to  
23 help create wealth and create jobs, Pure, indeed a Purer  
24 Michigan.

25 And finally, and I would argue, we have  
Metro Court Reporters, Inc. 248.426.9530

1 no choice. Bit by bit cleaner energy is coming. The  
2 current fossil fuel world in which we live is, it's very  
3 much around today, but it's not -- its days are numbered,  
4 and more and more places around this country and around  
5 this world are actively shifting to a pro clean energy  
6 strategy, and no one, to my knowledge, is turning back.  
7 No one is saying, hey, we want to ditch the renewables,  
8 ditch the energy efficiency, and go for more coal. I  
9 think this is part of a trend that we have a great  
10 opportunity to not only be aware of and tap into, but to  
11 actively embrace. I believe we should stop fighting it  
12 and get on board, let the train work for us and let's go.

13 The Governor asked that the decisions  
14 that the State make be adaptable for different possible  
15 futures, he asks that we have no regrets, he says the  
16 rewards for making the right decisions are tremendous,  
17 and I agree. I urge the State to go with the rising  
18 clean energy tide instead of against it. Indeed, let's  
19 help push it along and reap the wealth creation, job  
20 creation, and Pure Michigan benefits that come with it.  
21 Thank you for your time.

22 JACOB CORVIDAE: Surely the ability to  
23 sit through long hearings must be a job requisite for  
24 being a public sector commissioner and policy advocate,  
25 so thank you for staying. My name Jacob Corvidae, I am

1 with WARM Training Center, it's not hot or cold, but  
2 WARM, and the president of the Southeast Michigan  
3 Regional Energy Office.

4 And I just want to make three points I  
5 have not heard yet today. The first is WARM has a  
6 32-year history of working with affordability and energy  
7 efficiency, and I want to really drive home the point  
8 that affordability does not equal cheap rates. I have  
9 never heard a parent say, oh, my kid's just got into  
10 college, it's the cheapest one we could find. Right?  
11 We're looking for value with affordability, and I think  
12 it's a really key factor we need to keep in mind when we  
13 talk about affordability.

14 So I specifically have two points related  
15 to that that I'd like to drive home. One is that I would  
16 like to see us move towards policies that incentivize  
17 actual energy savings, not mere outputs of activities  
18 taken. We know that energy modeling is at best a loose  
19 art, it's a useful tool, but it is not a perfect tool,  
20 and we would like to see data and incentives based on the  
21 actual energy reductions that people make. As this will  
22 incentivize new things, it will have very positive  
23 impacts.

24 WARM had an independent study done of our  
25 energy efficiency programs, seeding tens of thousands of

1 people with education, and what we found is after about  
2 \$100 spent per person, those people were able to save  
3 over \$280 a year in their energy bills. That's an  
4 incredible ROI. And that is a sort of measure that is  
5 not at all addressed in our current EO programs, because  
6 it simply does not fit within the current models. So I'd  
7 like to see us (inaudible).

8 The other thing that I think we could  
9 drive this (inaudible). I don't have a strong opinion on  
10 Choice versus regulation, I think there's advantages to  
11 both; however, any direction we go, I would like to see  
12 us push as a State towards transparency on utility data.  
13 The Green Button program, advocated by the White House,  
14 has been adopted by utilities and sponsored by both  
15 utilities and companies around the country to provide  
16 safe private ways for individuals to share their utility  
17 data in a way that will really drive the market around  
18 energy efficiency, and we'd also like to see this  
19 integrated with real estate transactions. The Governor  
20 specifically mentioned in his address the idea of  
21 tackling this with affordable houses, but I don't see any  
22 reason to limit it to affordable housing, I think we need  
23 to address this for all market rate housing and  
24 commercial transactions as well.

25 The MacArthur Foundation recently  
Metro Court Reporters, Inc. 248.426.9530



1 conducted a study which showed that data transparency  
2 would drive energy efficiency in multifamily housing  
3 specifically, and I think you can extrapolate that to  
4 other sectors. So those are my main points. Thank you  
5 very much for your time.

6 DOUGLAS MYERS, JR.: I'd just like to say  
7 good evening, because we been here for a long time, but  
8 it's been a very important topic, so I want to thank  
9 everyone for giving me the opportunity to speak. My name  
10 is Douglas Myers, I'm the founder of the Feed Da Streetz  
11 Tour, it's a nonprofit organization comprised of  
12 musicians that represent blighted and stressed  
13 communities. I'm also here on behalf of the Sierra Club  
14 and also River Rouge Promised Neighborhood Initiative,  
15 and I represent the downriver area, and I'm a citizen of  
16 River Rouge, and I also am a DTE paid, I pay my bills  
17 every month just like everybody else do.

18 But I would like to thank Governor Snyder  
19 and Directors Bakkaal and Quackenbush for the opportunity  
20 to speak on this important topic.

21 I would like to talk to you guys today  
22 about facts and the awareness, that citizens need to  
23 understand the transition from the antiquated solution  
24 that they have now to cleaner energy solutions.

25 As far as cleaner energy, it starts with  
Metro Court Reporters, Inc. 248.426.9530

1 every one of us and our agendas on what we're going to do  
2 to make the change. We feel as though if we built a  
3 proper awareness, and probably even have a curriculum  
4 inside of some of the schools that children can actually  
5 identify where the coal-fired power plants are, they can  
6 identify the colors of the water that's not normal,  
7 things of that nature. I had an opportunity to go out  
8 into the Detroit River with the Sierra Club, and I saw  
9 the differences up close and personal. It gave me a  
10 very, very good understanding of what we need to do to  
11 make a change. I feel like that understanding what solar  
12 energy can do for our community is going to help us grow.

13 Obviously scientific research tells us  
14 that the pollution from outdated coal plants in the  
15 community is contributing to childhood asthma attacks,  
16 and also contributing to heart and lung disease, and even  
17 premature death, as well as premature birth. These  
18 issues hit close to home to me because I have a son that  
19 was born prematurely, and we live in that area. These  
20 issues also hit close to home to me because I have a  
21 mother that has ovarian cancer (inaudible), and she's  
22 moved out of the area to another area so that way she can  
23 survive a little bit longer. My father died when he was  
24 59, and he's from that area, and he died of a heart  
25 attack, he had a heart attack.

1 I feel as though our State should embrace  
2 a cleaner energy initiative, one that would reduce  
3 pollution in our air and our water.

4 Now, a lot of people talk about the facts  
5 and they put out specific numbers and things of that  
6 nature, but I feel as though you can not put a price on  
7 your life, you can't put a number on your life; I think  
8 your life is more important than any amount of money  
9 that's on this planet. I feel as though -- thank you. I  
10 feel as though based on what I've witnessed here today,  
11 there are various opinions and vantage points in regards  
12 to different solutions for the development of cleaner  
13 energy.

14 One vantage point which I spoken to you  
15 about earlier is I'm a resident of downriver and I'm here  
16 speaking on behalf of my fellow downriver residents,  
17 particularly in the southwest Detroit area and River  
18 Rouge, Michigan. We are surrounded by antiquated  
19 technology that threatens the existence of our generation  
20 and our offsprings.

21 There was mentioned many decisions and  
22 discussions about the amounts of money that can be saved,  
23 there's also been a lot of talk about the amount of money  
24 that can be invested, but nobody has really discussed the  
25 amount of lives that can be saved. We talk about the

1 health issues, but let's talk about if each one of us had  
2 an area that we lived in that was polluted, what would we  
3 do to save that person's life in that area? I just want  
4 to say the amount of pollution that we have in this area  
5 has become a threat to our immune system and also  
6 threatens our ability to learn and our ability to  
7 possibly obtain financial freedom. Knowing that the  
8 citizens are unaware of the health concerns that arise  
9 due to the antiquated energy system is one of the reasons  
10 why I decided to partner with the Sierra Club. We feel  
11 as though we would not be doing our part if we just stood  
12 here idly and didn't say anything about it.

13 As far as DTE stating that they're  
14 operating within the regulations of the Clean Air Act  
15 still doesn't negate the fact that pollutants are  
16 damaging our various communities. Regardless of the  
17 regulations that they legally abide by, people are still  
18 dying, and I guess that's legal. I don't feel that it  
19 should be legal based on my personal family experiences.

20 We intend to do everything necessary in  
21 our power to transition and evolve into a healthier  
22 lifestyle. Moving beyond coal should be the focus on all  
23 of our agendas and all of our hearts.

24 I have a tremendous amount of respect for  
25 everyone that supports the transition from coal to

1 renewable sustainable energy. Today I can see that we  
2 are all united, and it makes me proud to be a part of  
3 something that's going to shape a better and brighter  
4 future.

5 Like I said, I'm new to everything that  
6 I'm learning today, like I really appreciate all the  
7 information that I've obtained. So thank you.

8 JOHN QUACKENBUSH: O.K. We are well past  
9 6:00 o'clock; we were able to squeeze in more speakers  
10 than we thought we could. We didn't get to everybody,  
11 and we apologize for that, but we did have about 80  
12 interested speakers, and we have well past 50 in.

13 So let me just end by saying all the  
14 information that was shared today is going to be posted  
15 to our website at [michigan.gov/energy](http://michigan.gov/energy). We will put -- if  
16 you have a prepared remarks that you didn't get to  
17 deliver today, please provide it to us, we will post that  
18 on the website as well. There will be transcripts  
19 available in about 10 days of everything that was said  
20 here today. And please, keep submitting your written  
21 comments to the website as well.

22 I'd like to thank a couple people  
23 especially today. Well, I'd like to thank the people  
24 from NextEnergy for providing this great facility for us  
25 today. And I'd also like to thank Steve Bakkal and his  
Metro Court Reporters, Inc. 248.426.9530

1 dedication for being here today. You probably don't know  
2 it, but he was in the hospital this morning with his wife  
3 preparing to have birth of their third child, and Steve  
4 is so dedicated, he asked his wife to wait until  
5 tomorrow, he wanted to be here with you today.

6 So anyway, with that, the next Michigan  
7 Public Forum for energy will be on April 12 in Marquette,  
8 and we hope to see some of you there. Thank you very  
9 much for coming today.

10 (Proceedings concluded at 6:15 p.m.)

11 - - -  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

## C E R T I F I C A T E

I, Lori Anne Penn (CSR-1315), do hereby  
certify that I reported in stenotype the proceedings held  
at the Michigan Energy Public Forum, at NextEnergy, 461  
Burroughs Street, Detroit, on Monday, March 25, 2013; and  
do further certify that the foregoing transcript  
constitutes a true and correct transcript of my stenotype  
notes.

Lori Anne Penn, CSR-1315  
33231 Grand River Avenue  
Farmington, Michigan 48336

Dated: April 7, 2013

- - -